Global and Southern African Perspectives

Principles of Managerial Finance

Third edition

CJ Zutter | SB Smart

A Fanta | J Hall | E Louw D Makina | P Makoni | S Ngwenya M Beaumont Smith | B Strydom



Pearson South Africa (Pty) Ltd 4th Floor, Auto Atlantic Building, Corner Hertzog Boulevard and Heerengracht, Cape Town, 8000

Authorised adaptation from the US edition, entitled Principles of Managerial Finance, 15th edition, ISBN: 9780134476315 by CJ Zutter and SB Smart published by Pearson Education, Inc, Copyright © 2018.

African edition published by Pearson South Africa (Pty) Ltd Copyright © 2022.

To request permission to reproduce or adapt any part of this publication, please visit https://www.pearson.com/global-permission-granting.html

ISBN: 978-1-485-70919-0 (print) ISBN: 978-1-485-71887-1 (ePDF)

Publisher: Aamina Gangat

Senior Managing Editor: Ulla Schuler

Editor: Alco Meyer Proofreader:

Indexer: Lois Henderson

Book and cover design: Pearson Media Hub Cover artwork: konstanttin.123rf.com

Artwork: Claudia Eckard Typesetting: Stacey Gibson

Acknowledgements

BRIEF CONTENTS

Preface	xvi	PART 5: Long-term	
About the authors	xvii	investment decisions	
How to use this book	xix		390
PART 1: Introduction to managerial finance		Chapter 12 Risk and refinements in	427464
Chapter 1 The role of managerial finance Chapter 2 The financial market environment	2 t 27	Integrative Case study 5: UniMining Manufacturing Company	503
Integrative Case study 1: Lewanika Enterprises	44	PART 6: Long-term financial decisions	
PART 2: Financial tools		Chapter 13 Leverage and capital structure	506
Chapter 3 Financial statements and analysis Chapter 4 Long and short-term financial planning	101	Integrative Case study 6:	555 586
Chapter 5 Time value of money Integrative Case study 2: Efficient Software Ltd	146 211	PART 7: Short-term financial decisions	
PART 3: Valuation of securiti		Chapter 15 Working capital and current assets management	590
Chapter 6 Interest rates and bond valuation Chapter 7 Share valuation Integrative Case study 3: Performac	216 258	Integrative Case study 7:	629 661
Automotive International PART 4: Risk and the	302	PART 8: Special topics in managerial finance	
required rate of return			664
Chapter 8 Risk and return	304	Chapter 18 Mergers, LBOs, divestitures	
Chapter 9 The cost of capital	352		703
Integrative Case study 4:		Chapter 19 International managerial finance Integrative Case study 8: Organic	745
Eskimo Cooling's green air conditioners	388		783
conditioners	300	Appendices A Financial tables B Solutions to self-test problems C Answers to selected end-of-chapter problems	
		,	837
		Index	855

DETAILED TABLE OF CONTENTS

PA	RT 1: Introduction to		Prob	lems	24
managerial finance			Spreadsheet exercise		25
Cho	apter 1 The role of managerial nce Corporate governance woes at Eskom	2 3	Chapter 1 Case study: Management remuneration and financial performance of JSE firms		26
1.1	Finance and the firm	5	Cho	apter 2 The financial market	
	What is finance?	5	env	ironment	27
	Career opportunities in finance	6		The regulation and supervision of	
	Legal forms of business organisation	6		South African banks	28
	Why study managerial finance? Review questions	8 9	2.1	Financial institutions and markets Financial institutions	29
1.2	Goal of the firm	10		Commercial banks, investment banks	23
	Maximise shareholder wealth	10		and the shadow banking system	29
	Maximise profit	11		Financial markets	30
	What about stakeholders?	13		The relationship between institutions	
	The role of business ethics	13		and markets	31
	Focus on ethics	14		The money market	31
	Review questions	14		The capital market	32
	Focus on ethics	14		Focus on Practice	33
1.3	Managerial finance function	14		Review questions	35
	Organisation of the finance function	15		Focus on Ethics	35
	Relationship to economics	15	2.2	Financial risks and bank failures	35
	Relationship to accounting	16		Credit risk	36
	Primary activities of the financial			Counterparty credit risk	36
	manager	17		Market risk	36
	Review questions	18		Operational risk	36
1.4	Governance and agency	18		Interest rate risk	37
	Corporate governance	18		Liquidity risk	37
	The agency issue	19		Review questions	37
	Review questions	21	2.3	Regulation of financial institutions	
Sum	mary	21		and markets	37
Oper	ner-in-review	22		Regulations governing the financial	0.0
-	test problems	22		sector in South Africa	38
	-			Review questions	39
wari	m-up exercises	23			

				Detailed table of contents	V
Sum	ımary	39		Total asset turnover	63
Ope	ner-in-review	41		Review question	64
Self-	test problem	41	3.5	Debt ratios	64
War	m-up exercises	41		Debt ratio	65
Adva	anced problems	41		Times interest earned ratio Review questions	66 66
	eadsheet exercise	42	3.6	Profitability ratios	66
Cha	pter 2 Case study: The pros and cons being publicly listed	43	3.0	Common-size statements of comprehensive income	66
	grative Case study 1: wanika Enterprises	41		Gross profit margin Operating profit margin Net profit margin	67 68 68
PART 2: Financial tools				Earnings per share (EPS) Return on total assets (ROA)	68 69
	apter 3 Financial statements	4.4		Return on ordinary shareholder's	
anc	d analysis	46		equity (ROE) Review questions	69 70
	Leopard Clothing Company	47		•	
3.1	The shareholders' report Global focus	48 48	3.7	Market ratios Price/earnings (P/E) ratio	70 70
	The letter to shareholders	49		Market/book (M/B) ratio	70
	The International Accounting	15		Review question	71
	Standard (IAS) and the four key		3.8	A complete ratio analysis	71
	financial statements	49		Summarising all ratios	71
	Focus on ethics	50		DuPont system of analysis	75
	Notes to the financial statements	56		Applying the DuPont system	76
	Review questions	57		Review questions	76
3.2	Using financial ratios	57	Sum	mary	77
	Interested parties	57 57	Ope	ner-in-review	77
	Types of ratio comparisons Cautions about using ratio analysis	57 59	Self-	test problems	78
	Categories of financial ratios	60	War	m-up exercises	79
	Review questions	60		lems	80
3.3	Liquidity ratios	60		pter 3 Case study: Assessing Global	
	Current ratio	60		anufacturing Company's current	
	Quick (acid-test) ratio	61		ancial position	97
	Review question	61	Spre	adsheet exercise	98
3.4	Activity ratios	62	-	ıp exercise	100
	Inventory turnover	62	3100	ip exercise	100
	Average collection period	62			
	Average payment period	63			

Cho	apter 4 Long and short-term		Self-	test problems	130
fina	ncial planning	101	Warı	m-up exercises	131
	Not streaming at Netflix – cash flow	102	Prob	lems	132
4.1	The financial planning process Long-term (strategic) financial plans	103 103	Spre	adsheet exercise	144
	Short-term (operating) financial plans Review questions	103 104	_	oter 4 Case study: Preparing ProtectU's of forma financial statements	145
4.2	Measuring the firm's cash flow Depreciation	105 105	Cho	apter 5 Time value of money The reality of South Africa's retirees	146 147
	Depreciation methods Developing the statement of cash flows Interpreting the statement Free cash flow Focus on ethics Focus on practice	106 107 110 112 112 114	5.1	The role of time value in finance Future value versus present value Computational tools Basic patterns of cash flow Review questions Single amounts	149 149 150 152 153
4.3	Review questions Cash planning: cash budget	114 115	3.2	Future value of a single amount	153
	The sales forecast Preparing the cash budget Evaluating the cash budget	115115120		Compound interest versus simple interest Present value of a single amount Comparing present value and	157 158
	Coping with uncertainty in the cash budget	120		future value Review questions	160 161
	Cash flow within the month Review questions	121 122	5.3	Annuities	161
4.4	Profit planning: pro forma statements Preceding year's financial statements Sales forecast Review question			Types of annuities Finding the future value of an ordinary annuity Finding the present value of an	161
4.5	Preparing the pro forma statement of			ordinary annuity Finding the future value of an	164
	comprehensive income Considering types of costs and expenses	124 124		annuity due Finding the present value of an annuity due	166 168
4.6	Review questions Preparing the pro forma statement of	125		Finding the present value of a perpetuity	169
	financial position Review questions	126 128	5.4	Review questions Mixed streams	170 170
4.7	Evaluation of pro forma statements Review questions	128 128	J. 4	Future value of a mixed stream Present value of a mixed stream	170 170 172
Sum	mary	128		Review question	174
Oper	ner-in-review	130			

				Detailed table of contents	VII
5.5	Compounding interest more			Focus on practice	223
	frequently than annually	174		Risk premiums: issuer and issue	
	Semi-annual compounding	174		characteristics	226
	Quarterly compounding	175		Review questions	227
	Monthly compounding	175	6.2	Government and corporate bonds	227
	A general equation for compounding			Legal aspects of corporate bonds	228
	more frequently than annually	176		Cost of bonds to the issuer	229
	Using computational tools for			General features of a bond issue	229
	compounding more frequently			Bond yields	230
	than annually	176		Bond prices	230
	Continuous compounding	177		Bond ratings	231
	Nominal and effective annual rates			Focus on ethics	232
	of interest	178		Common types of bonds	232
	Review questions	179		International bond issues	234
	Focus on ethics	179		Review questions	234
5.6	Special applications of the time value	180	6.3	Valuation fundamentals valuation	234
	Determining deposits needed to			Key inputs	235
	accumulate a future sum	180		Basic valuation model	236
	Loan amortisation	181		Review questions	236
	Finding interest or growth rates	183	6.4	Bond valuation	237
	Focus on practice	183		Bond fundamentals	237
	Finding an unknown number of periods	186		Bond valuation	237
Sum	mary	187		Semi-annual interest rates and	
Ope	ner-in-review	190		bond values	238
Self-	test problems	190		Changes in bond values	240
	_			Yield to maturity (YTM)	243
	m-up exercises	191		Review questions	244
Prob	lems	192	Sum	mary	244
Adva	anced problems	207		ner-in-review	246
Cha	pter 5 Case study: Funding Leonard		-	test problems	246
Ch	aba's retirement annuity	210		•	
Inte	grative Case study 2: Efficient			n-up exercises	247
So	ftware Ltd	211	Prob.	lems	248
			Spre	adsheet exercise	256
PA	RT 3: Valuation of securities	S	Chap	oter 6 Case study: Evaluating Marlene	
Cha	apter 6 Interest rates and bond		Ma	shiymbe's proposed investment in	
	Jation	216	Alu	ıta Industries' bonds	257
Vale	Eskom bonds	217	Cla a		0.50
<i>c</i>			Cnc	upter 7 Share valuation	258
6.1	Interest rates and required returns	218		Vodacom: Initial public offering	259
	Interest rate fundamentals Term structure of interest rates	218222	7.1	Differences between debt and equity capital	260

vii

Voice in management Claims on income and assets		260260261	PART 4: Risk and the required rate of return			
	Maturity Tax treatment	261261	Cho	pter 8 Risk and return	304	
	Review question	261		Risk management at Remgro Ltd	305	
7.2	Ordinary and preference share capital		8.1	Risk and return fundamentals	307	
	Ordinary share capital	261		Risk defined	307	
	Preference share capital	264		Return defined Focus on ethics	308 309	
	Interpreting share quotations Review questions	271273		Risk preferences	311	
	•			Review questions	312	
7.3	Ordinary share valuation	273	0.0	-		
	Market efficiency and stock valuation	273	8.2	Risk of a single asset	312	
	Ordinary share dividend valuation model	075		Risk assessment Risk measurement	312 313	
		275275		Review questions	318	
	Focus on practice Free cash flow share valuation model			-		
	Other approaches to ordinary	200	8.3	Risk of a portfolio	318	
	share valuation	282		Portfolio return and standard deviation Correlation		
	Focus on ethics	283		Diversification	319 320	
	Review questions	285		Correlation, diversification, risk		
7.4	Decision-making and ordinary			and return	321	
	share value	285		International diversification	323	
	Changes in expected dividends	286		Global focus	324	
	Changes in risk	286		Review questions	325	
	Combined effect	287	8.4	Risk and return: The capital asset		
	Review questions	287		pricing model (CAPM)	325	
Sum	mary	287		Types of risk	325	
Oper	ner-in-review	290		The model: CAPM	326	
Self-	test problems	290	_	Review questions	334	
Warr	n-up exercises	291		mary 	334	
Prob	lems	292	_	ner-in-review	336	
Adva	inced problems	299		test problems	336	
Char	oter 7 Case study: Assessing the		Warr	n-up exercises	337	
_	pact of Babeca Wholesalers'		Probl	lems	338	
	posed risky investment on its share	301	Adva	nced problem	349	
Integ	grative Case study 3: Performac		Chap	oter 8 Case study: Analysing risk and		
_	tomotive International	302	ret	urn on Booster Products' investments	350	
			Sprea	adsheet exercise	351	

Cho	apter 9 The cost of capital	352	Self-	test problem	374
	Growthpoint Properties Ltd	353		n-up exercises	376
9.1	Overview of the cost of capital	354	Probl	•	376
	Some key assumptions The basic concept	354 354	Adva	nced problem	384
	Focus on ethics	355	Chap	ter 9 Case study: Making Tackle Bob's	
	Specific sources of capital	356	fina	ancing/investment decision	385
	Review questions	356	Sprea	adsheet exercise	386
9.2	Cost of long-term debt	356	Integ	rative Case study 4: Eskimo Cooling's	
	Net proceeds	357	gre	en air conditioners	388
	The before-tax cost of debt	357			
	The after-tax cost of debt	359		RT 5: Long-term investme	ent
	Review questions	359	de	cisions	
9.3	Cost of a preference share	359	Cho	inter 10 Capital budgeting	
	Calculating the cost of a preference share	359	Chapter 10 Capital budgeting techniques		390
			1001	The gold standard for evaluating	0,0
		360		gold mines	391
	Review question	360	10 1	Overview of capital budgeting	392
9.4	Cost of an ordinary share	360	10.1	Motives for capital expenditure	392
	Finding the cost of ordinary share equity			Steps in the process	392
		360		Basic terminology	393
	Cost of retained earnings	362		Benonxi Company's relevant cash flows	394
	· · · · · · · · · · · · · · · · · · ·	363		Review question	395
	Review questions	364	10.2	Payback period	395
9.5	Weighted average cost of capital	364		Decision criteria	395
	Calculating weighted average cost of			Pros and cons of payback periods	396
	capital (WACC)	364		Focus on practice	397
	Weighting schemes	365		Review questions	399
	Review questions	367	10.3	Net present value (NPV)	399
9.6	Marginal cost and	0.67		Decision criteria	399
	investment decisions	367		NPV and the profitability index (PI)	401
	The weighted marginal cost of capital (WMCC)	367		NPV and Economic Value Added	401
	Focus on practice	368		Review questions	402
	Investment opportunities schedule (IOS)		10.4	Internal rate of return (IRR)	403
	Using the WMCC and IOS to make	3, 3		Decision criteria	403
	financing/investment decisions	371		Calculating the IRR	403
	Review questions	372		Review questions	405
Sum	mary	372	10.5	Comparing NPV and IRR techniques	405
	ner-in-review	374		Net present value profiles Conflicting rankings	405 407

ix

Detailed table of contents

	Which approach is better? Review questions	409 410		After-tax proceeds from sale of old asset Change in net working capital	t 443 443
	Focus on ethics	410		Review question	444
Sum	mary	411	11.5	Summarising the relevant cash flows	445
Oper	ner-in-review	413		Review question	446
Self-	test problem	413	Sum	mary	446
Warr	n-up exercises	413	Oper	ner-in-review	448
Probl	lems	414	Self-	test problems	448
Adva	inced problems	423	Warr	n-up exercises	448
	oter 10 Case study: Making Clean Air's		Probl	ems	449
_	w ventilator investment decision	425	Adva	nced problems	459
Sprea	adsheet exercise	426	Chap	oter 11 Case study: Developing	
- Cho	pter 11 Capital budgeting n flows	427	rele Co	evant cash flows for Everest Publishing mpany's machine renewal or lacement decision	g 462
	SASOL	428	Spre	adsheet exercise	463
11.1	Relevant project cash flows Major cash flow components	429 429	Cho	pter 12 Risk and refinements in	
	Focus on ethics	430		ital budgeting	464
	Expansion versus replacement		·	MTN's Nigerian experience	465
	decisions	430	12.1	Introduction to risk in capital	
	Sunk costs and opportunity costs	431		budgeting	466
	International capital budgeting and long-term investments	432		Review question	466
	Review questions	433	12.2	Behavioural approaches for dealing	
	Global focus	433		with risk	466
11.2	Finding the initial investment	434		Break-even analysis	466
	Installed cost of new asset	435		Scenario analysis Simulation	468 469
	After-tax proceeds from sale of			Focus on practice	470
	old asset	435		Review questions	470
	Change in net working capital	437	12.3	International risk considerations	470
	Calculating the initial investment	438		Adjusting for currency risk	471
	Review questions	439		Review question	471
11.3	Finding the operating cash inflows Interpreting the term cash inflows	439 439	12.4	Risk-adjusted discount rates Determining risk-adjusted discount	472
	Interpreting the term after-tax	440		rates (RADRs)	472
	Interpreting the term incremental	441		Review of CAPM	473
	Review questions	442		Focus on ethics	474
11.4	Finding the terminal cash flow Proceeds from sale of assets	443 443		Applying RADRs	475

	Portfolio effects	477		External assessment of capital structure	522
	RADRs in practice	478		International capital structure	523
	Review questions	479		comparisons Capital structure theory	523
12.5	Capital budgeting refinements	479		Optimal capital structure	532
	Comparing projects with unequal lives	479		Review questions	533
	Recognising real options	483	12.2	•	
	Capital rationing Review questions	484 486	15.5	EBIT-EPS approach to capital structure Presenting a financing plan graphically	
0	-			Comparing alternative capital	224
	mary	487		structures	535
Open	ner-in-review	488		Considering risk in EBIT-EPS analysis	
Self-	test problem	488		Basic shortcoming of EBIT-EPS analysis	536
Warr	n-up exercises	489		Review question	536
Probl	lems	490	13.4	Choosing the optimal capital structure	536
Adva	inced problem	499		Linkage	536
Char	oter 12 Case study: Evaluating			Estimating value	537
_	rgiMedco Equipment's risky plans			Maximising value versus	F00
	increasing its production capacity	500		maximising EPS	538
Sprea	adsheet exercise	501		Some other important considerations Review questions	539
•	grative Case study 5: UniMining		Cum	•	539
_	nufacturing Company	503		mary	
			-	ner-in-review	540
	RT 6: Long-term financial			test problems	541
ae	cisions			n-up exercises	542
Cha	pter 13 Leverage and capital		Probl	ems	543
	cture	506	Adva	nced problem	552
	APPLE INC. Apple leverages its brand	507	Chap	ter 13 Case study: Evaluating Claudia	
13.1	Leverage	508	Pha	armaceutical's capital structure	553
	Break-even analysis	509	Sprea	adsheet exercise	554
	Operating leverage	512			
	Focus on practice	514	Cho	pter 14 Payout policy	555
	Financial leverage	516		Is Vodacom Group Limited (VOD) a	
	Total leverage	518		great dividend stock?	556
	Relationship of operating, financial		14.1	The basics of payout policy	557
	and total leverage	520		Elements of payout policy	557
	Focus on ethics	520		Trends in earnings and dividends	558
	Review questions	521		Trends in dividends and share	
13.2	The firm's capital structure	521		repurchases	558
	Types of capital	522		Focus on ethics	560
				Review questions	560

14.2	The mechanics of payout policy	560	Sprea	adsheet exercise	585
	Cash dividend payout procedures Share repurchase procedures	560 561	U	rative Case study 6: Co-operative ne Merchants	586
	Tax treatment of dividends and repurchases Focus on practice Review questions	562563563		RT 7: Short-term financial cisions	
	Dividend reinvestment plans Share price reactions to corporate payouts	563564		pter 15 Working capital and ent assets management HSBC announces cutting 35,000 jobs	590
14.3	Relevance of payout policy	564		as profits fall by a third	591
	Residual theory of dividends The dividend irrelevance theory Arguments for dividend relevance Review questions	565566567568	15.1	Net working capital fundamentals Working capital management Net working capital Trade-off between profitability and risk	
14.4	Factors affecting dividend policy	568		Review questions	594
	Legal constraints Contractual constraints	568 568	15.2	Cash conversion cycle Calculating the cash conversion cycle	595 595
	Growth prospects Owner considerations Market considerations	568 569		Funding requirements of the cash conversion cycle Strategies for managing the cash	596
	Review question	569 569		conversion cycle	599
14.5	Types of dividend policies	570		Review questions	599
11.5	Constant-payout-ratio dividend policy		15.3	Inventory management	599
	Regular dividend policy Low-regular-and-extra dividend policy Review question	570		Differing viewpoints about inventory level Common techniques for managing	600
14.6	Other forms of dividends	571		inventory	600
	Share dividends Share splits	572 573		Focus on practice International inventory management Review questions	603 604 604
	Review questions	574	15 4	Trade receivables management	605
Sumi		575	13.1	Credit selection and standards	605
Open	er-in-review	576		Focus on practice	606
Self-1	est problem	576		Credit terms	609
Warr	n-up exercises	576		Credit period	611
Probl	ems	577		Credit monitoring	611
Adva	nced problem	584		Review questions	613
Chap Pro	ter 14 Case study: Medical Personal tective Equipment dividend ment policy	585	15.5	Management of receipts and disbursements Float Speeding up collections	613 613
				-L ab composition	0 1 0

	Slowing down payments	614	Self-	test problem	651
	Focus on practice	614	Warr	n-up exercises	651
	Cash concentration	615	Probl	ems	652
	Zero-balance accounts	615		nced problems	657
	Investing in short-term investments	617		-	037
_	Review questions	617	-	eter 16 Case study: Choosing between aggressive and conservative short-	
Sum	mary	617		m funding strategy for Kamperville	
Oper	ner-in-review	619		nponents CC	659
Self-	test problems	619		adsheet exercise	660
Warı	m-up exercises	620	-		000
Prob	lems	621	_	rative Case study 7: Superior Outdoor stics	661
	anced problems	625	Pia	stics	001
	-	023	PAF	RT 8: Special topics in	
_	oter 15 Case study: Assessing Azania blishing Company's cash management			inagerial finance	
	iciency	627			
	•			pter 17 Hybrid and derivative	
spre	adsheet exercise	628	secu	urities	664
Cho	apter 16 Current liabilities			Sasol shares jump after locking in	665
mar	nagement	629		fuel prices	
	South African FinTech start-ups		17.1	Overview of hybrids and derivatives	666
	innovating in the payments space	630		Review question	666
16.1	Spontaneous liabilities	631	17.2	Leasing	666
	Trade and other payables management	631		Types of leases	666
	Accruals	635		Leasing arrangements	667
	Review questions	635		Focus on practice	667
16.2	Unsecured sources of short-term loans	636		Lease-versus-purchase decision Effects of leasing on future financing	668 672
	Bank loans	636		Advantages and disadvantages	072
	Commercial paper	641		of leasing	672
	Focus on practice	642		Review questions	673
	International loans	642	17 2	Convertible securities	673
	Review questions	643	17.3	Types of convertible securities	673
16.3	Secured sources of short-term loans	644		General features of convertibles	674
	Characteristics of secured			Financing with convertibles	675
	short-term loans	644		Determining the value of a	0, 5
	Use of trade receivables as collateral	645		convertible bond	676
	Use of inventory as collateral	647		Review questions	678
	Review questions	648		Focus on ethics	679
Sum	mary	648	17.4	Share purchase warrants	679
Oper	ner-in-review	651		Key characteristics	679

xiii

Detailed table of contents

XIV Detailed table of contents

	Implied price of an attached warrant Value of warrants	680 681	Global focus Holding companies	723 724	
	Review questions	683	International mergers	725	
17.5	Options	683	Review questions	727	
	Calls and puts	683	Global focus	727	
	Options markets	684	18.4 Business failure fundamentals	727	
	Options trading	685	Types of business failure	728	
	Role of call and put in fundraising	686	Major causes of business failure	728	
	Hedging foreign-currency exposures		Review questions	729	
	with options	686	18.5 Reorganisation and liquidation in		
	Forward and futures contracts	687	bankruptcy	729	
17.6	Swaps	688	Bankruptcy legislation	729	
	Review questions	690	Focus on practice	730	
Sum	mary	690	Priority of claims	731	
Oper	er-in-review	692	Review questions	732	
Self-	test problems	692	Summary	732	
Warm-up exercises		693	Opener-in-review	734	
Problems		694	Self-test problems	734	
Advanced problems		699	Warm-up exercises	734	
Chapter 17 Case study: Wirley Wind Turbine Turners			Problems		
		701	Advanced problems	740	
Sprea	adsheet exercise	702	Chapter 18 Case study: The dilemma of Unathi Company: To acquire or to		
Cho	pter 18 Mergers, LBOs,		liquidate – what shall we do?	742	
dive	stitures and business failure Sibanye-Stillwater acquires Lonmin	703 704	Spreadsheet exercise	744	
18.1	Merger fundamentals	706	Chapter 19 International managerial		
	Terminology	706	finance	745	
	Motives for merging	709	Mr Price expects a rise in bad		
	Types of mergers	711	customer debt due to COVID-19	746	
	Review questions	711	19.1 The multinational company and its		
18.2	LBOs and divestitures	711	environment	747	
	Leveraged buyouts (LBOs)	712	Key trading blocs	747	
	Divestitures	712	GATT and the WTO	749	
	Review questions	714	Legal requirements for MNCs	749	
18.3	Analysing and negotiating mergers	714	Taxes Financial markets	750 751	
	Valuing the target company	714	Review questions	751 753	
	Share swap transactions	716	review questions	, ,,,	
	Merger negotiation process	721			

Financial statements	753	Sum	mary	774
Subsidiary characterisation and		Open	ner-in-review	776
		Self-	test problem	776
		Warr	n-up exercises	776
-			-	777
		11001	iciii3	,,,
Exchange rate risks	754	Adva	inced problems	779
Political risks	760	Chan	oter 19 Case study: Assessing a	
Review questions	761	_	, ,	
Long-term investment and financing	761	Cor	mputer Company	780
Foreign direct investment	762	Sprea	adsheet exercise	781
Investment cash flows and decisions	762	-		
Capital structure	763	Integ	grative Case study 8: Organic Solutions	/83
Global focus	764	Appe	endices	785
Long-term debt	765	Α	Financial tables	
Equity capital	766	В	Solutions to self-test problems	
Review questions	767	D	•	
Short-term financial decisions	768	С	-	
Cash management	769	G	_	
Credit and inventory management	772		•	
Review questions	772	Gloss	sary	837
Mergers and joint ventures	772	Index	x	855
Review question	774			
	Subsidiary characterisation and functional currency Translation of individual accounts Review question Risk Exchange rate risks Political risks Review questions Long-term investment and financing Foreign direct investment Investment cash flows and decisions Capital structure Global focus Long-term debt Equity capital Review questions Short-term financial decisions Cash management Credit and inventory management Review questions Mergers and joint ventures	Subsidiary characterisation and functional currency 753 Translation of individual accounts 753 Review question 754 Risk 754 Exchange rate risks 754 Political risks 760 Review questions 761 Long-term investment and financing 761 Foreign direct investment 762 Investment cash flows and decisions 762 Capital structure 763 Global focus 764 Long-term debt 765 Equity capital 766 Review questions 767 Short-term financial decisions 769 Credit and inventory management 772 Review questions 772 Mergers and joint ventures 772	Subsidiary characterisation and functional currency 753 Review question 754 Exchange rate risks 754 Review questions 761 Characteristic Review questions 761 Characteristic Review questions 761 Characteristic Review questions 761 Characteristic Review questions 761 Cong-term investment and financing 761 Foreign direct investment 762 Investment cash flows and decisions 763 Capital structure 763 Capital structure 763 Clobal focus 764 Capital currency 765 Equity capital 766 Equity capital 766 Review questions 768 Cash management 769 Credit and inventory management 772 Review questions 772 Mergers and joint ventures 772 Index 150 Index	Subsidiary characterisation and functional currency Translation of individual accounts Review question Translation of individual accounts Review question Translation of individual accounts Review question Translation of individual accounts Translation of Advanced problems Translation of Chapter prob

ΧV

Detailed table of contents

PREFACE

This is the third Southern African edition of the internationally respected text *Principles* of *Managerial Finance* and provides new relevant cases and examples and additional advanced questions to fully meet the demands of current-day financial management students, lecturers and practitioners.

Principles of Managerial Finance (originally Gitman, and now Zutter & Smart) is currently in its 15th edition and is widely used internationally. The 15th edition of Principles of Managerial Finance concentrates on the material students need to know to make effective financial decisions in an increasingly competitive business environment. It allows students to make the connections between a firm's action and its value, as determined in the financial market. With a generous number of examples, this text is an easily accessible resource for in- and out-of-class learning.

In response to a demand from lecturers of undergraduate finance, we, the authors, a team of practising academics from a range of South African universities, have adapted the original text for the Southern African market. We have retained the original text's accessibility and carefully developed a pedagogical approach with its focus on both theory and practical application.

The Southern African adaptation reflects South African legislation, practices and terminology while retaining a global perspective. The hallmark features that have made the original text so enduringly appealing and useable have been retained, namely the book's use of clear explanations, the linking of concepts to practical examples and how concepts, tools and techniques are demonstrated through the inclusion of numerous examples.

The Southern African adaptation takes cognisance of the vastly different financial contexts in different countries. It recognises students' need for relevant, engaging and up-to-date content and opportunities to put the learned theory into practice.

Supplementary material has been developed and is available electronically to prescribe lecturers. This includes an instructor's manual with worked solutions to all the problems in the chapters and adapted PowerPoint slides. Prescribing lecturers can also request access to further Pearson resources.

We hope you find this text useful and trust that it meets your teaching needs and equips all students of financial management with the necessary theoretical background and practical skills needed in today's marketplace.

Ashenafi Fanta, John Hall, Elmarie Louw, Sam Ngwenya, Daniel Makina, Patricia Makoni, Marolee Beaumont Smith, Barry Strydom

ABOUT THE AUTHORS

Ashenafi Beyene Fanta is a senior lecturer of development finance at the University of Stellenbosch Business School. Dr Fanta has been teaching courses in finance at higher learning institutions in Ethiopia and South Africa for nearly 20 years, and he has published widely in several scholarly Journals and delivered papers at international conferences. Dr Fanta holds a doctoral degree in Social and Economic Sciences: Corporate Finance, from the Johannes Kepler University of Linz, Austria and MSc in Accounting and Finance from Addis Ababa University.

John Henry Hall received his BCom in 1984 and his BCom (Hons) (Economics) at the NMU (formerly UPE) in 1986 after which he worked at the head office of SARS and a regional office in Cape Town as a tax inspector. He completed his MBA at UP during 1989 and worked for four years as Financial Manager of a civil engineering and manufacturing firm. He started in 1994 as a lecturer in Financial and Investment Management at UP, completed his DBA at UP during 1998 and was subsequently promoted to senior lecturer, associate professor and a full professor. He has published numerous articles in scholarly journals (some of which has received best paper awards), has presented research papers on several conferences both locally and internationally and is a NRF rated researcher. John presents Financial Management on several short courses and consults on a wide range of issues in the private sector.

Elmarie Louw is a senior lecturer in the Financial Management Department of the University of Pretoria. Elmarie studied BCom Accounting at the North-West University and obtained her CA(SA) qualification in 2009. She completed her MCom in Financial Management at the University of Pretoria in 2013 and are currently busy with her PhD in Financial Management.

Sam Ngwenya is currently a professor and a Director of the School of Economic and Financial Sciences at UNISA. He has published articles and facilitated in-house workshops in Finance for Non-Financial Managers for public and private organisations. He has also contributed chapters in Corporate Finance: A South African Perspective and Finance for Non-Financial Managers.

Daniel Makina is a Professor of Finance at the University of South Africa and a member of the College of Expert Reviewers of the European Science Foundation (ESF). He holds a PhD from the University of Witwatersrand, Johannesburg. His research interests are banking, financial inclusion, and migration financial economics. He has published on these topics in reputable international journals such as Applied Financial Economics, Applied Economics, African Development Review, African Finance Journal, Migration Letters, and International Migration. He is the editor of the book – Extending Financial Inclusion in Africa –published by Elsevier in 2019. He also contributed the Chapter – The Mortgage Market, Character and Trends in Africa – to the International Encyclopaedia of Housing and Home.

xviii

Patricia Makoni received her PhD from the University of Witwatersrand, Johannesburg; and is currently a Professor of Finance and Investment at the University of South Africa (UNISA), having joined the institution in 2010. She has published several academic papers spanning development, corporate and international finance in various international journals, including the Journal of Accounting and Management, Acta Universitatis Danubius Œconomica, Academy of Accounting and Financial Studies Journal and the International Journal of Economics & Business Administration. Professionally, she contributes to business for a through her involvement as a member of both the Institute of Directors (Zimbabwe; IoDZ) and the Chartered Institute of Development Finance (CIDEF), respectively.

Marolee Beaumont Smith, DCom, has extensive higher education experience both locally and abroad as an associate professor in the Department of Finance, Risk and Banking at Unisa and Vista University, and in Economics on the International Program at the Cologne Business School in Germany. Her local and international collaborative research and publications cover a range of topics. These include working capital management, econometric research on inflation, firm growth, profitability and distance education research in business management.

Barry Strydom is a senior lecturer in finance based in Pietermaritzburg, South Africa in the School of Accounting, Economics & Finance at the University of KwaZulu-Natal. He has over 25 years of teaching and supervising experience in finance and strategic management. Barry is a widely published author in local and international journals and finance textbooks.

HOW TO USE THIS BOOK

The pages that follow illustrate the key features of this book.

Six **learning outcomes** at the start of the chapter anchor the most important concepts and techniques in the chapter. The learning outcome icons reappear next to related text sections and again in the end-of-chapter exercises and problems.



Every chapter opens with a feature, titled **Why this chapter matters to you**, that helps motivate student interest.

Its first part, In your professional life, discusses the intersection of the finance topics covered in the chapter with the concerns of other major business disciplines. It encourages students majoring in accounting, information systems, management, marketing, and operations to appreciate the numerous cross-disciplinary interactions that routinely occur in business.

The second part, **In your personal life**, identifies topics in the chapter that will have particular application to personal finance.

Each chapter opens with a case study that describes a recent real-company event related to the chapter topic. These stories raise interest in the chapter by demonstrating its relevance in the business world.

A critical thinking question at the end of each case study encourages readers to give additional thought to the story and its application to the chapter topic.

The reality of South Africa's retirees

147

A lexander Forbes performed research on the financial survival of pensioners of refirement schemes in South Africa. Even though this research was done before the COVID-19 outbreak and Moody's downgrade of South Africa in April 2020, it does not paint a pretty picture. Several issues, including nor paint a prenty picture, several issues, including retirement dates, the choice of the annuity (pension) and how much capital retirees have at retirement was examined. Unfortunately, it seems that South African pensioners do not have enough money to last from the



Most retirement funds work on providing 75% of income after 40 years of service. Stated differently, of least 85% of people did not save properly for relirement. This could be due to people either started too late or they cashed in their refirement funds when they changed jobs along the way. While people may have additional savings outside of their formal retirement While peopler may increase distinct a styling sometime or ment infinitely that it will materially change the overall picture.

Once people retire, they have to make a critical choice between

retirement annuities. The two main types of annuities (pensions) are a realistical distributes. The two that hybe distributes persions is guaranteed, and once you have made your choice you cannot change it; or what is called an investment-linked living annuity where you make the investment choice. and the underlying investments (with or without the aid of a financial

plannel). About 90% of pensioners chose investment-linked living annulty. With an investment-linked living annulty, the drawdown rate should be considered carefully. If the drawdown rate of refires is too high, their income will start declining in nominal terms (without the impact of inflation).

A horsh, unexpected event such as COVID-19, will result in income being depleted much earlier as anticipated. The study reveled that around 70% and 77% with the capital of less than R1,500,000 has drawdown rates higher than 5%. Between 24% and 36% with the capital of less than R1,500,000 has drawdown rates higher than 7.5%. Close on 25% with the capital of less than R600,000 have drawdow rates higher than 10%.

Learning outcome icons, which appear next to first-level text headings, tie chapter content to the learning outcomes.



3.1 The shareholders' report

Accounting Practices Board (APB) the accounting profession's rule-setting body in South Africa. It approved the International Financial Reporting Standar

Every company has many and varied uses for the standardised records and reports of its financial activities. Periodically, reports known as Financial Statements must be prepared for their relevant stakeholders such as regulators, creditors (lenders), owners and management. To ensure the integrity of the information within the financial statements, guidelines are set by the accounting profession's rule-setting body in South Africa, the Accounting Practices Board (APB) to be used to prepare and maintain these reports. The Accounting Policies (GAAP) was then authorised as the main guideline for companies to use.

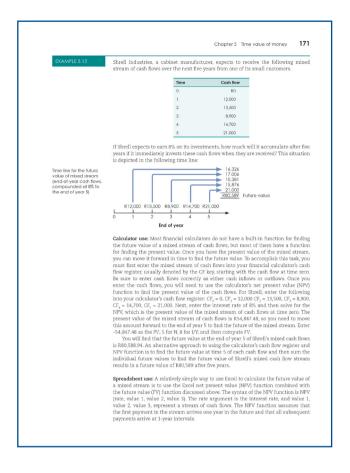
During March 2012, The Accounting Practices Board (APB) and the Financial



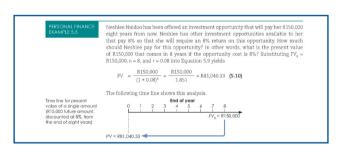
5.2 Single amounts

Although most real-world financial problems require managers to make comparisons between streams of cash flow over time, some problems are simpler and involve lump sums or single cash flows at a particular point in time. Furthermore, understanding how to apply time-value-of-money methods to lump sum problems is key to knowing, how to handle more complex decisions, so we will begin by studying the comparison of lump sums at different times.

Examples are an important component of the book's learning system. Clearly set off from the text, they provide an immediate and concrete demonstration of how to apply financial concepts, tools, and techniques.



Personal finance examples demonstrate how students can apply managerial finance concepts, tools, and techniques to their personal financial decisions.



Key equations help students identify the most important mathematical relationships.

The PPP relationship gives us a guide to estimating how the spot exchange rate between two currencies will change over time, given the difference in inflation rates between the two countries (assuming all other factors remain constant). $\Delta S^2 = (1+h)/(1+h_0^2-1) \quad (19.1)$ where $\Delta S^2 = (1+h)/(1+h_0^2-1) \quad (19.1)$ where $\Delta S^2 = (1+h_0^2-1) \quad (19.1)$ where $\Delta S^2 = (1+h_0^2-1) \quad (19.1)$ is the percentage change in the value of the foreign currency; $h_1 = (1+h_0^2-1) \quad (1$

Review questions appear at the end of each major text section. These questions challenge students to stop and test their understanding of key concepts, tools, techniques, and practices before moving on to the next section.

In practice boxes offer insights into important topics in managerial finance through the experiences of real companies, both large and small. There are three categories of In Practice boxes:

Focus on ethics boxes in every chapter help students understand and appreciate important ethical issues and problems related to managerial finance.

Focus on practice boxes take a corporate focus that relates a business event or situation to a specific financial concept or technique.

Global focus boxes look specifically at the managerial finance experiences of international companies.

All three types of In Practice boxes end with a critical thinking question to help students broaden the lesson from the content of the box. Guideline answers to these questions can be found in the book's Instructor Material

The end-of-chapter **Summary** consists of two sections. The first section, Focus on value, explains how the chapter's content relates to the firm's goal of maximising owner wealth. The feature helps reinforce understanding of the link between the financial manager's actions and share value.

The second part of the Summary, the Review of learning outcomes, restates each learning outcome and summarises the key material that was presented to support mastery of that goal.

REVIEW QUESTIONS

- 18.1 Define and differentiate among the members of each of the following sets Define and uniferinate alrining the interfines of earth of the following sets of terms: (a) mergers, consolidations and holding companies; (b) acquiring company and target company; (c) friendly merger and hostile merger and (d) strategic merger and financial merger.
- 18.2 Briefly describe each of the following motives for merging: (a) growth or diversification, (b) synergy, (c) fundraising, (d) increased managerial skill or technology, (e) tax considerations, (f) increased ownership liquidity and (g) defence against a takeover.
- 18.3 Briefly describe each of the following types of mergers: (a) horizontal. (b) vertical. (c) congeneric and (d) conglomera

(Focus on ethics)

Mo (se

for S Sout thes Ubu

ngu are whi

Corporate social responsibility in South Africa

There has and will always be the need for organisations to make profits and the needs of society. CSR has been considered more strongly than ever since the early 1990s, building on a trend that had been growing since the start of the 20th century. CSR broadly refers to all an organisation's impacts on society and the need to deal responsibly with the impacts on each group

"Comparate Social Responsibility (CSR) is not a new issue Corporate Governance South African businesse: have sharpened their focus on their commitment to the 'triple-bottom-line'. Organisations cannot ignore the impact of social, ethical and environmental issues on their business and the economy and the cost of neglecting these issues will be high

Focus on practice

South African mortgage bonds

In South Africa, there are various ways of obtaining finance for the property. Typically, one may finance your land, buildings and your home through mortgage your later, buildings that you from the mileograming back bonds available from one of the banks, such as ABSA, Standard Bank, Nedbank and FNB, or other financing institutions, such as SA Home Loans and

A mortgage loan differs from bonds and debentures. A mortgage loan requires monthly instalments consisting of an amount to pay off the outstanding

such as water leaks and geyser failures. Life insurance (mortgage cover) is normally optional to provide cover in case the homeowner dies and prevents the heirs from being faced with major debt. Insurance against unemployment and subsequent loss of revenue is also available to protect the homeowner

wners may arrange a flexible interest rate a fixed interest rate or a capped rate. The flexible interest rate allows the bank to increase the interest

Global focus

More countries Adopt International Financial Reporting Standards

In the United States, public companies are required to report financial results using US GAAP. However, accounting standards vary around the world, and that makes comparing the financial results of companies located in different countries quite challenging. In recent years, many countries have adopted a system of accounting principles known as International Financial Reporting Standards (IFRS), which are established by an independent standards-setting body known as the International standards-selling body known as the mentalional Accounting Standards Board (IASB). These standards are designed to make financial statements everywhere understandable, reliable, comparable, and accurate, In July 2014, the IASB issued IFRS 9, which addresses the accounting for financial instruments, IFRS 9 came into effect on 1 January 2018 and replaced all earlier IFRS for financial instruments (IAS 39). More than 80 countries now require listed companies to comply with IFRS, and

dozens more permit or require companies to follow IFRS to some degree. In South Africa, the South African Accounting Practice Board (APB) was formed in 1973 to consider what should be generally accepted accounting practice and issued SA GAAP, In 2003, the APB decided to harmonise SA GAAP with International Financial Reporting

The Companies Regulations of 2011 permitted the use of either IFRS, IFRS for SMEs or SA GAAP in specific instances. However, to reduce the burden of issuing each IFRS standard as SA GAAP, it has been decided to withdraw SA GAAP in respect of financial vear commencing on or after December 1, 2012. year commencing of or dare becomined it, 2012.

In addition, companies in South Africa are require to align their reporting process with the guiding principles and content outlined in the Integrated Reporting Framework (IRF) of the International

Summary

Chapter 1 established the primary goal of the firm - to maximise the wealth of the owners for whom the firm is being operated. For public companies, value at any time is reflected in the share price. Therefore, management should act only on those opportunities that are expected to create value for owners by increasing the share price. Doing this requires management to consider the returns (magnitude and timing of cash flows), the risk of each proposed action, and their combined effect on value.

Review of learning outcomes



Understand the role that financial institutions play in managerial finance. Financial institutions bring net suppliers of funds and net demanders together to help translate the savings of individuals, businesses, and governments into loans and other types of investments. The net suppliers of funds are generally individuals or households who save more money than they borrow. Businesses and governments are generally net demanders of funds, meaning that they borrow more money than they save.

Self-test problems, linked to the learning outcomes, give readers an opportunity to strengthen their understanding of topics by doing a sample problem. For reinforcement, solutions to the Self-test problems appear in Appendix B at the back of the book.

This new edition includes **Advanced problems** that build on the basic concepts and demand a more indepth understanding and application of the topics covered in each chapter.

Warm-up exercises follow the Self-test problems. These short, numerical exercises give students practice in applying tools and techniques presented in the chapter.

Comprehensive Problems, keyed to the learning outcomes, are longer and more complex than the Warm-up exercises. In this section, instructors will find multiple problems that address the important concepts, tools, and techniques in the chapter.

Personal finance problems specifically relate to personal finance situations and examples in each chapter. These problems will help students see how they can apply the tools and techniques of managerial finance in managing their own finances.

The last item in the chapter Problems is an **Ethics problem**. The ethics problem gives students another opportunity to think about and apply ethics principles to managerial financial situations.

Self-test problems (Solutions in Appendix B)



ST5-1
Future values for various compounding frequencies: Ella Campbell has R10,000 that she can deposit in any of three savings accounts for three years. Bank A compounds interest on an annual basis, Bank B compounds interest twice each year, and Bank C compounds interest each quarter. All three banks have a stated annual interest rate of 4%

- a. What amount would Ms Campbell have at the end of the third year, leaving all interest paid on the deposit, in each bank?
 b. What effective annual rate (EAR) would she earn in each of the banks?
- c. Based on your findings in parts A and B, which bank should Ms Campbell deal
- d. If a fourth bank (Bank D), also with a 4% stated interest rate, compounds interest continuously, how much would Ms Campbell have at the end of the third year? Does this alternative change your recommendation in part c? Explain why or why not.

Advanced problems



Hedging with options, forwards and futures: It is the beginning of May and Metro Manufacturers has placed an order for a state-of-the-art ultra-sound scanning instrument for \$300,000. It expects to take delivery of the equipment in six months at which time it will have to make full payment to the supplier. The CFO of Millenium is concerned about the firm's exposure to exchange rate risk on the transaction and has decided to hedge the risk. The firm's bank has provided the following information to assist the company in its hedging decision

Warm-up exercises



Namatse Ltd is considering leasing a new machine for R50,000 per year. The lease arrangement calls for a 5-year lease with an option to purchase the machine at the end of the lease for R7,000. The firm is in the 28% tax bracket. What is the present value of the lease outflows, including the purchase option, if lease payments are made at the end of each year and if the after-tax cost of debt is 7%?

Problems



Liability comparisons: Nisha Patel has invested R250,000 in Patel Family Bazaars. The firm has recently declared bankruptcy and has R600,000 in unpaid debts. Explain the nature of payments, if any, by Ms Patel in each of the following situations.

- a. Patel Family Bazaars is a sole proprietorship owned by Ms Patel.
 b. Patel Family Bazaars is a 50-50 partnership of Ms Patel and Christopher Black.
- c. Patel Family Bazaars is a corporation.



 $P1\hbox{--}2$ Accrual income versus cash flow for a period: Van Schaik Bookstore supplies textbooks to college and university bookstores. The books are shipped with a proviso that they must be paid for within 30 days but can be returned for a full refund credit within 90 days. In 2009, Van Schalk shipped and billed book titles totalling R7,600,000. Collections, net of return credits, during the year totalled R6,900,000. The company spent R3,000,000 acquiring the books that it shipped.

Personal finance problem



Exchange rates: Joe Smallwood is planning to trip to Las Vegas and the Grand Canyon in August. He estimates once he arrives in Las Vegas, he will need 2,000 dollars (\$)) to cover transport, accommodation and spending money Joe estimates that round-trip airfare from his home in Johannesburg to Las Vegas, will be ZAR16.400. He expects also will incur another ZAR4,000 in incidental travel expenses. Joe plans to take an additional ZAR10,000 to cover the cost of buying a new Ipad for his use. Currently, the exchange rate is ZAR17.14/\$1.00 (or \$0.058/ZAR1.00).

Ethics problem

Maximising shareholder wealth is your company's primary financial objective. Many firms do whatever it takes to maximise shareholder wealth, including paying bribes when doing business in other countries. Explain you are the shareholders why your firm will never engage in such practices.

Chapter cases call for application of concepts and techniques to a more complex, realistic situation than in the regular Problems. These cases help strengthen practical application of financial tools and techniques.

Every chapter includes a **Spreadsheet exercise**. This exercise gives students an opportunity to create one or more spreadsheets with which to analyse a financial problem. The spreadsheet to be created is often modelled on a table in the chapter.

An Integrative case at the end of each part of the book challenges students to use what they have learned over the course of several chapters.

CHAPTER 8 CASE STUDY

Analysing risk and return on Booster Products' investments

Dinize Janties, a financial analyst for Booster Products, a manufacturer of stadium benches, must evaluate the trix and return of two assets. X and X The firm is considering adding these assets to its diversified asset portfolio. To assets the return and risk of each asset, Philikie gathered data on the annual cash flow and beginning and end of year values of each asset over the immediately preceding ten years, 2012-2021. These data are summarised in the following table. Phinkie's investigation suggests that both assets, on sweeps, will lend to perform in the future just as they have during the past ten years. He, therefore, believes that the expected annual return can be estimated by finding the average annual return for each asset over the past ten years.

Spreadsheet exercise

Zandile is considering investing in three different shares or creating three distinct two-share portfolios. Zandile considers herself to be a rather conservative investor. She can obtain forecasted returns for the three securities for the years 2020 through 2026. The data are as follows:

Year	Share A	Share B	Share C	
2020	10%	10%	12%	
2021	13	11	14	
2022	15	8	10	
2023	14	12	11	
2024	16	10	9	
2025	14	15	9	
2026	12	15	10	

INTEGRATIVE CASE STUDY 1

Lewanika Enterprises

Then Bongani Dube completed his university degree in 2010, he spent one year looking for a job without success and then decided to go into business as a sole proprietor. Being entrepreneurial, Bongani secured funding from a microfinance institution and opened small retail shop he named Lewanika Enterprises in the Soweto township of Johannesburg where he lived. Bongani chose his wares for sale based on what the consumers in the township wanted, and within one year his shop flourished and was able to repay in full the money he borrowed from the local microfinance institution.

information and was also deeplay in the throney is continued in the four microfinance institution.

By the time he married in 2015, Lewanika Enterprises had grown stremendously that the sole proprietorship now relied on large commercial banks for working capital needs. Bongani had then opened five more outlets in other townships and the inner-city of Johanneburg, His wife, who was an accountant by training, also get involved in the management of the business. The business continued growing, and by 2019 Lewanika Enterprises had grown into ten supermarkets spread throughout Johanneburg, Annual tumover had risen to over R40 million, and the business was employing over 300 people that included family members. The sole proprietorship's growth was mainly financed by reinvesting profits and borrowing from banks when necessary.

growth was mainly financed by reinvesting profits and borrowing from banks when necessary.

One day in 2020, Bongani and his wife got engaged in a serious discussion on the future of the business. They had plans to expand to other cities, and this required them to raise funds to the tune of a round R10 million. They also realised the limitations of staying as a sole proprietorship and were considering other forms of organisation such as partnership, a private limited company and listing on the JSE AltX market for medium-sized businesses.

- a. What do you think could have contributed to the success of Lewanika Enterprises into growing to become a medium-sized business?

 b. What are the limitations of Lewanika Enterprises staying as a sole proprietorship?

 c. What are the pros and cons of Lewanika Enterprises becoming a partnership?

 d. What are the pros and cons of Lewanika Enterprises becoming a private company?

 e. Is there merit in Lewanika Enterprises going public by listing on the JSE AlX

- market?

 f. What advice can Lewanika Enterprises seek from its bankers regarding the raising
- of finance for expansion?

 g. What form of organisation can you recommend being suitable for Lewanika Enterprises? Give reasons.

PART 1 INTRODUCTION TO MANAGERIAL FINANCE

Chapters in this part

- 1 The role of managerial finance
- 2 The financial market environment

Integrative Case study 1: Lewanika Enterprises

Part 1 of *Principles of Managerial Finance* discusses the role that financial managers play in businesses and the financial market environment in which firms operate. We argue that the goal of managers should be to maximise the value of the firm and by doing so, maximise the wealth of its owners. Financial managers act on behalf of the firm's owners by making operating and investment decisions whose benefits exceed their costs. These decisions create wealth for shareholders. Maximising shareholder wealth is important because firms operate in a highly competitive financial market environment that offer shareholders many alternatives for investing their funds. To raise the financial resources necessary to fund the firm's ongoing operations and future investment opportunities, managers have to deliver value to the firm's investors. Without smart financial managers and access to financial markets, firms are unlikely to survive, let alone achieve the long-term goal of maximising the value of the firm.

1

THE ROLE OF MANAGERIAL FINANCE

Daniel Makina

Learning outcomes

- LO 1
- Define finance and the managerial finance function.
- LO 2
- Describe the legal forms of business organisation.
- LO 3
- Describe the goal of the firm and explain why maximising the value of the firm is an appropriate goal for a business.
- Describe how the managerial finance function is related to economics and accounting.
- Identify the primary activities of the financial manager.
- LO 6

Describe the nature of the principal-agent relationship between the owners and managers of a company and explain how various corporate governance mechanisms attempt to manage agency problems.

Why this chapter matters to you

In your professional life

Accounting: You need to understand the relationships between the accounting and finance functions within the firm; how decision-makers rely on the financial statements you prepare; why maximising a firm's value is not the same as maximising its profits; and the ethical duty that you have when reporting financial results to investors and other stakeholders.

Information systems: You need to understand why financial information is important to managers in all functional areas; the documentation that firms must produce to comply with various regulations; and how manipulating information for personal gain can get managers into serious trouble.

Management: You need to understand the various legal forms of a business organisation; how to communicate the goal of the firm to employees and other stakeholders; the advantages and disadvantages of the agency relationship between a firm's managers and its owners; and how compensation systems can align or misalign the interests of managers and investors.

Marketing: You need to understand why increasing a firm's revenues, or market share is not always a good thing; how financial managers evaluate aspects of customer relations such as cash and credit management policies; and why a firm's brands are an important part of its value to investors.

Operations: You need to understand the financial benefits of increasing a firm's production efficiency; why maximising profit by cutting costs may not increase the firm's value; and how managers act on behalf of investors when operating a corporation.

In your personal life

Many of the principles of managerial finance also apply to your personal life. Learning a few simple financial principles can help you manage your own money more effectively.

Corporate governance woes at Eskom

skom is a public electricity utility
established in 1923 by the South African
government in terms of the Electricity Act
of 1922 which since grew up to become
the largest producer of power in Africa.
It is a state-owned enterprise in which
the government is the sole shareholder.

In recent years Eskom has been dogged by financial and operational problems that are threatening its sustainability. Financially, it has accumulated more than R450 billion of debt that is unsustainable resulting in the public utility being downgraded deeper into junk status by rating agencies such as Moody's and S & P. Operationally; it has struggled to meet electricity demand resulting in episodes of load-shedding since



2008. Both operational and financial problems have been diagnosed to stem from financial mismanagement, misconduct, and maladministration that have characterised Eskom over many years. In essence, the problems were occasioned by a collapse of corporate governance, that is, Eskom's implementation of rules, norms, processes, and systems that direct the way that it is managed and is held accountable, with reference to key legislation, regulations, national and internal policies, and good governance standards.

The Report of the Portfolio Committee on Public Enterprises on the inquiry into governance, procurement and financial sustainability of Eskom dated 28 November 2018 highlighted numerous breaches in governance. It reported among other transgressions that 'evidence brought before the Committee showed how Eskom's internal policies and procedures were applied in bad faith to victimise or side-line long-standing, competent and/or law-abiding executives, senior staff and experts.'

Governance failures at Eskom could be said to have taken place at all levels. In the first instance, the shareholder (Government) failed in its oversight of the Board, which it had appointed to oversee the operations of the public utility. Secondly, the Board failed to ensure that management followed the best corporate governance practices and adhere to key legislations, rules and regulations governing the operations of Eskom. Thirdly, management failed to ensure that internal controls were adhered to in operations.

Since 2019, that is, following the publication of the Parliamentary Report of the Portfolio on Public Enterprises, the government (shareholder) has been seized on implementing the recommendations of the Committee. These recommendations included the following, among others:

- Change of leadership and management at Eskom
- A full review of Eskom's policies and procedures, as well as the policies and procedures of the Ministry of Public Enterprises to assess their compliance with relevant legislation, for all material concerns, including procurement and procedures for the appointment of Executives and Board members
- Strengthening oversight capacity and clarifying the role of the shareholder
- Strengthening the powers of Parliament to hold individuals and institutions accountable.

Subsequently, a new Board was appointed and tasked with – Addressing governance failures and rooting out corruption, the weak financial position, and the declining revenue, all of which were threatening the sustainability of Eskom. Furthermore, a new CEO was appointed and commenced work in early 2020.

 What does the corporate governance problems at Eskom teach us about the agency problem in companies?

Source: Report of the Portfolio Committee on Public Enterprises on the inquiry into governance, procurement and financial sustainability of Eskom date 28 November 2018, available at https://www.parliament.gov.za/storage/app/media/Links/2018/November%202018/28-11-2018/Final%20Report%20-%20Eskom%20Inquiry%2028%20NOV.pdf



1.1 Finance and the firm

The field of finance is broad and dynamic. Finance influences everything that firms do, from hiring personnel to building factories to launching new advertising campaigns. Because there are important financial dimensions to almost any aspects of business, there are many financially oriented careers opportunities for those who understand the basic principles of finance described in this textbook. Even if you do not see yourself pursuing a career in finance, you will find that an understanding of a few key ideas in finance will help make you a smarter consumer and a wiser investor with our own money.

What Is finance?

finance the science and art of managing money

Finance can be defined as the science and art of managing money. At the personal level, finance is concerned with individuals' decisions about how much of their earnings they spend, how much they save, and how they invest their savings. In a business context, finance involves the same types of decisions: how firms raise money from investors, how firms invest money in an attempt to earn a profit, and how they decide whether to reinvest profits in the business or distribute them back to investors. The keys to good financial decisions are much the same for businesses and individuals, which is why most students will benefit from an understanding of finance, regardless of the career path they plan to follow. Learning the techniques of good financial analysis will not only help you make better financial decisions as a consumer, but it will also help you understand the financial consequences of the important business decisions you will face, no matter what career path you follow.

Matter of fact

What drives risk perception?

A global survey with financial professionals and Lay people

Abstract:

Risk is an integral part of many economic decisions and is vitally important in finance. Despite extensive research on decision-making under risk, little is known about how risks are perceived by financial professionals, the key players in global financial markets. In a large-scale survey experiment with 2,213 finance professionals and 4,559 lay people in nine countries representing ~50% of the world's population and more than 60% of the world's gross domestic product, we expose participants to return distributions with an equal expected return, and we systematically vary the distributions' next three higher moments. Of these, skewness is the only moment that systematically affects financial professionals' perception of financial risk. Strikingly, variance does

not influence risk perception, even though return volatility is the most common risk measure in finance in both academia and the industry. When testing other, compound risk measures, the probability to experience losses is the strongest predictor of what is perceived as being risky. Analysing professionals' propensity to invest, skewness and loss probability have strong predictive power too. However, volatility and kurtosis also have some additional effect on participants' willingness to invest. Our results are similar for lay people, and they are robust across and within countries with different cultural backgrounds as well as for different job fields of professionals.

Source: https://osf.io/kmgn8/

Career opportunities in finance

Careers in finance typically fall into one of two broad categories: (1) financial services, and (2) managerial finance. Workers in both areas rely on a common analytical 'tool kit,' but the types of problems to which that tool kit is applied vary a great deal from one career path to the other.

Financial services

Financial services are an area of finance concerned with the design and delivery of advice and financial products to individuals, businesses, and governments. It involves a variety of interesting career opportunities within the areas of banking, personal financial planning, investments, real estate, and insurance.

Managerial finance

Managerial finance is concerned with the duties of the financial manager working in a business. Financial managers administer the financial affairs of all types of businesses – private and public, large and small, profit-seeking and not for profit. They perform such varied tasks as developing a financial plan or budget, extending credit to customers, evaluating proposed large expenditures, and raising money to fund the firm's operations. In recent years, several factors have increased the importance and complexity of the financial manager's duties. These factors include the recent global financial crisis and subsequent responses by regulators, increased competition, and technological change. For example, globalisation has led US companies to increase their transactions in other countries, and foreign companies have done likewise in the United States. These changes increase the demand for financial experts who can manage cash flows in different currencies and protect against the risks that arise from international transactions. These changes increase the finance functions' complexity, but they also create opportunities for a more rewarding career. The increasing complexity of the financial manager's duties has increased the popularity of a variety of professional certification programmes outlined in the Focus on practice section below. Financial managers today actively develop and implement corporate strategies aimed at helping the firm grow and improving its competitive position. As a result, many corporate chief executive officers (CEOs) rose to the top of their organisations by first demonstrating excellence in the finance function. For instance, in South Africa 25 percent of directors of the top 200 companies on the JSE Limited are Chartered Accountants (CAs); 90 percent of CFOs of these top 200 companies are CAs, and 22 percent of the CEOs of the top 40 companies on the JSE are CAs.

Legal forms of business organisation

One of the most basic decisions that all businesses confront is how to choose a legal form of organisation. This decision has important financial implications because how a business is organised legally, influences the risks that the firm's owners must bear, how the firm can raise money, and how the firm's profits will be taxed. The three most common legal forms of business organisation are the sole proprietorship, the partnership, and the company. More businesses are organised as sole proprietorships than any other legal form. However, the largest businesses are almost always organised as companies. Even so, each type of organisation has its advantages and disadvantages.

Sole proprietorships

A sole proprietorship is a business owned by one person who operates it for his/her profit. The typical sole proprietorship is small, such as a bike shop, personal trainer, or plumber - most sole proprietorships operating in the wholesale, retail, service, and construction industries.

financial services

the area of finance concerned with the design and delivery of advice and financial products to individuals, businesses, and governments

managerial finance

concerns the duties of the financial manager in a business

financial manager

actively manages the financial affairs of all types of businesses, whether private or public, large, or small, profit-seeking or not for profit

sole proprietorship

a business owned by one person and operated for his/her profit

Typically, the owner (proprietor), along with a few employees, operates the proprietorship. The proprietor raises capital from personal resources or by borrowing, and he/she is responsible for all business decisions. As a result, this form of organisation appeals to entrepreneurs who enjoy working independently.

A major drawback to the sole proprietorship is **unlimited liability**, which means that liabilities of the business are the entrepreneur's responsibility, and creditors can make claims against the entrepreneur's assets if the business fails to pay its debts. The key strengths and weaknesses of sole proprietorships are summarised in Table 1.1.

Partnerships

A **partnership** consists of two or more owners doing business together for profit. Partnerships are typically larger than sole proprietorships and are common in the finance, insurance, legal and real estate industries. Public accounting and law partnerships often have large numbers of partners.

Most partnerships are established by a written contract known as a **partnership agreement**. In a *general* (or regular) partnership, all partners have unlimited liability, and each partner is legally liable for all the debts of the partnership. The key strengths and weaknesses of partnerships are summarised in Table 1.1.

unlimited liability

the condition of a sole proprietorship (or general partnership), giving creditors the right to make claims against the owner's personal assets to recover debts owed by the business

partnership a business owned by two or more people and operated for profit

partnership agreement the written contract used to formally establish a business partnership

Table 1.1	_	Strengths and weaknesses of the common legal forms of outsiness organisation		
	Sole proprietorships	Partnerships	Companies	
Strengths	Owner receives all profits (and sustains all losses). Low organisational costs. Income included and taxed on proprietor's personal tax return. Independence. Secrecy. Ease of dissolution.	 Can raise more funds than sole proprietorships. Borrowing power enhanced by more owners. More available brainpower and managerial skill. Income included and taxed on a partner's personal tax return. 	 Owners have limited liability which guarantees that they cannot lose more than they invested. Can achieve large size via a sale of ownership (shares). Ownership (share) is readily transferable. Long life of the firm. Can hire professional managers. Has better access to financing. 	
Weaknesses	 Owner has unlimited liability – total wealth can be taken to satisfy debts. Limited fund-raising power tends to inhibit growth. Proprietor must be Jack-of-all-trades. Difficult to give employees long-run career opportunities. Lacks continuity when 	 Owners have unlimited liability and may have to cover the debts of other partners. Partnership is dissolved when a partner dies. Difficult to liquidate or transfer partnership. 	 Taxes generally higher because corporate income is taxed. More expensive to organise than other business forms. Subject to greater government regulation. Lacks secrecy because regulations require firms to disclose financial results. 	

Matter of fact

The legislation governing the operation of companies in South Africa is the Companies Act, 2008 as amended in 2018. One of its main features, as compared to the previous legislation, is that it has been modernised to be in line with international best practices. This is with

proprietor dies.

regard to public companies, communications and corporate governance. It has also been harmonised with other South African legislation, such as the Promotion of Access to Information Act (PAIA) and the Electronic Communications and Transactions (ECT) Act.

company an entity created by law

shareholders the owners of a company, whose ownership or equity, takes the form of either ordinary shares or preference shares

limited liability a legal provision that limits stockholders' liability for a corporation's debt to the amount they initially invested in the firm by purchasing stock

ordinary shares the purest and most basic form of company ownership

dividends periodic distribution of cash to the shareholders of a firm

board of directors group elected by the firm's shareholders and typically responsible for approving strategic goals and plans, setting general policy, guiding corporate affairs, and approving major expenditures

managing director or chief executive officer (CEO) corporate official responsible for managing the firm's dayto-day operations and carrying out the policies established by the board of directors

Companies

A **company** is an entity created by law. It has the legal powers of an individual in that it can sue and be sued, make and be a party to contracts, and acquire property in its name. Table 1.1 lists the key strengths and weaknesses of companies.

The owners of a company are its **shareholders**, whose ownership, or *equity* takes the form of either ordinary shares or preference shares. Unlike the owners of sole proprietorships or partnerships, shareholders of a company enjoy **limited liability**, meaning that they are not personally liable for the firm's debts. Their losses are limited to the amount they invested in the firm when they purchased shares. In chapter 7, you will learn more about **ordinary** and preference **shares**, but for now, it is enough to say that ordinary shares are the purest and most basic form of company ownership. Shareholders expect to earn a return by receiving **dividends** – periodic distributions of cash – or by realising gains through increases in the share price. Because the money to pay dividends generally comes from the profits that a firm earns, shareholders are sometimes referred to as *residual claimants*, meaning that they are paid last – after employees, suppliers, tax authorities, and lenders receive what they are owed. If the firm does not generate enough cash to pay everyone else, there is nothing available for shareholders.

As noted in the upper portion of Figure 1.1, control of the company is structured like a democracy. The shareholders (owners) vote periodically to elect members of the **board of directors** and to decide on other issues such as amending the corporate charter. The Board of directors is typically responsible for approving strategic goals and plans, setting general policy, guiding corporate affairs, and approving major expenditures. Most importantly, the Board decides when to hire or fire top managers and establishes compensation packages for the most senior executives. The Board consists of 'inside' directors, such as key company executives, and 'outside' or 'independent' directors, such as executives from other companies, major shareholders, and national or community leaders. Outside directors for major companies receive compensation in the form of cash, shares, and share options.

The **managing director** or **chief executive officer (CEO)** is responsible for managing day-to-day operations and carrying out the policies established by the Board of directors. The CEO reports periodically to the firm's directors.

It is important to note the division between owners and managers in a large corporation, as shown by the dashed horizontal line in Figure 1.1. This separation and some of the issues surrounding it will be addressed in the discussion of the *agency* issue later in this chapter.

Why study managerial finance?

An understanding of the concepts, techniques, and practices presented throughout this text will fully acquaint you with the financial manager's activities and decisions. Because the consequences of most business decisions are measured in financial terms, the financial manager plays a key operational role. People in all areas of responsibility – accounting, information systems, management, marketing, operations, and so forth – need a basic awareness of finance so that they will understand how to quantify the consequences of their actions.

Even if you are not planning to major in finance, you still will need to understand how financial managers think to improve your chance of success in your chosen career. Managers in the firm, regardless of their job descriptions, usually have to provide financial justification for the resources they need to do their job. Whether you are hiring new workers, negotiating an advertising budget, or upgrading the technology used in a manufacturing process, understanding the financial aspects of your actions will help you gain the resources you need to be successful. The 'Why this chapter matters to you' section that appears on each chapter opening page should help you understand the importance of each chapter in both your professional and personal life.

As you study this text, you will learn about career opportunities in managerial finance, which are briefly described in Table 1.2. Although this text focuses on publicly held, profit-seeking firms, the principles presented here apply to private and not-for-profit organisations. The decision-making principles developed in this text can also be applied to personal financial decisions. We hope that this first exposure to the exciting field of finance will provide the foundation and initiative for further study and possibly even a future career.

Table 1.2 Career opportuniti	es in managerial finance
Position	Description
Financial analyst	Prepares the firm's financial plans and budgets. Other duties include financial forecasting, performing financial comparisons, and working closely with accounting.
Capital expenditures manager	Evaluates and recommends proposed long- term investments. May be involved in the financial aspects of implementing approved investments.
Project finance manager	Arranges to finance for approved long- term investments. Co-ordinates consultants, investment bankers, and legal counsel.
Cash manager	Maintains and controls the firm's daily cash balances. Frequently manages the firm's cash collection and disbursement activities and short-term investments and co-ordinates short-term borrowing and banking relationships.
Credit analyst/manager	Administers the firm's credit policy by evaluating credit applications, extending credit, and monitoring and collecting accounts receivable.
Pension fund manager	Oversees or manages the assets and liabilities of the employees' pension fund.
Foreign exchange manager	Manages specific foreign operations and the firm's exposure to fluctuations in exchange rates.

REVIEW QUESTIONS

- **1.1** What is *finance*? Explain how this field affects all the activities in which businesses engage.
- **1.2** What is the financial services area of finance? Describe the field of managerial finance.
- **1.3** Which legal form of business organisation is most common? Which form is dominant in terms of business revenues?
- **1.4** Describe the roles and the basic relationships among the major parties in a company shareholders, Board of directors, and managers. How are corporate owners rewarded for the risks they take?
- **1.5** Briefly name and describe some organisational forms, other than corporations, that provide owners with limited liability.
- 1.6 Why is the study of managerial finance important to your professional life regardless of the specific area of responsibility you may have within the business firm? Why is it important in your personal life?

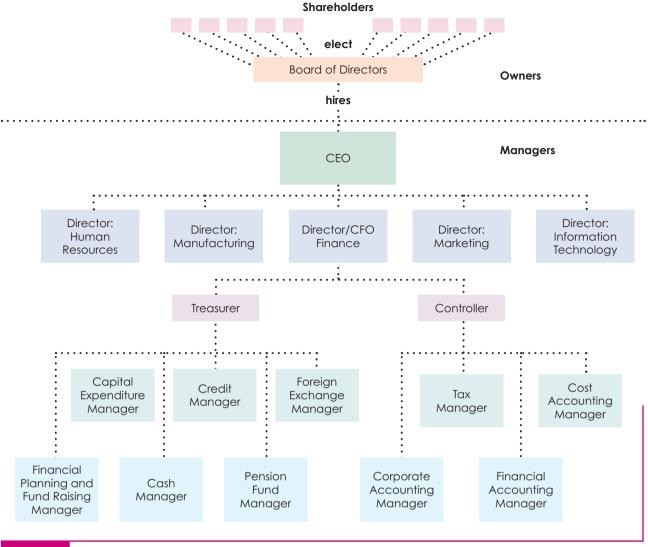


Figure 1.1 Corporate organisation. The general organisation of a company and the finance function.



1.2 Goal of the firm

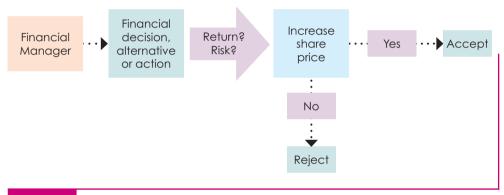
What goal should managers pursue? There is no shortage of possible answers to this question. Some might argue that managers should focus entirely on satisfying customers. Progress toward this goal could be measured by the market share attained by each of the firm's products. Others suggest that managers must first inspire and motivate employees; in that case, employee turnover might be the key success metric to watch. The goal that managers select will affect many of the decisions that they make, so choosing an objective is a critical determinant of how business should operate.

Maximise shareholder wealth

Finance teaches that a manager's primary goal should be to maximise the wealth of the firm's owners – the shareholders. The simplest and best measure of shareholder wealth is the firm's share price, so most textbooks (ours included) instruct managers to take actions that increase the firm's share price. A common misconception is that when firms strive to make their shareholders happy, they do so at the expense of other stakeholders such as customers, employees, or suppliers.

This line of thinking ignores the fact that in most cases, to enrich shareholders, managers must first satisfy the demands of these other interest groups. Recall that dividends that shareholders receive ultimately come from the firm's profits. It is unlikely that a firm whose customers are unhappy with it products, or whose employees are looking for jobs at other firms, or whose suppliers are reluctant to ship raw materials will make shareholders rich because such a firm will likely be less profitable in the long run than one that better manages its relations with these stakeholder groups.

Therefore, we argue that the goal of the firm, and managers, should be to maximise the wealth of the owners for whom it is being operated, or equivalently, to maximise the share price. This goal translates into a straightforward decision rule for managers – only take actions that are expected to increase the share price. Although that goal sounds simple, implementing it is not always easy. To determine whether a course of action will increase or decrease a firm's share price, managers have to assess what return (that is, cash inflows net of cash outflows) the action will bring, and how risky that return might be. Figure 1.2 depicts this process. We can say that the key variables that managers must consider when making business decisions are returns (cash flows) and risk.



earnings per share (EPS)

the amount earned during the period on behalf of each outstanding share of an ordinary share, calculated by dividing the period's total earnings available for the firm's ordinary shareholders by the number of shares of ordinary shares outstanding

Figure 1.2

Share price maximisation. Financial decisions and share price.

Maximise profit

It might seem intuitive that maximising a firm's share price is equivalent to maximising its profits, but that is not always correct.

Companies commonly measure profits in terms of **earnings per share (EPS)**, which represents the amount earned during the period on behalf of each outstanding ordinary share. EPS are calculated by dividing the period's total earnings available for the firm's ordinary shareholders by the number of ordinary shares outstanding.

EXAMPLE 1.1
PROFIT MAXIMISATION
AND UNCERTAINTY

Suppose you are the manager of a firm intending to choose between two investment projects, A and B, each requires an initial investment of R10 million and produces returns one period from now. Project A will return R10.5 million with certainty yielding a profit of (R10.5 million – R10 million) R500,000. Project B has an uncertain return and will return either R10.5 million or R9 million one period from now, each with a probability of .05. Thus, Project B will yield either a profit of R500,000 or a loss of R500,000. In terms of profit maximisation, which project is preferable?

A risk-averse investor would prefer Project A over Project B because of the certainty of its profit of R500,000.

But does profit maximisation lead to the highest possible share price? For at least three reasons, the answer is often no. Firstly, the timing is important. An investment that provides a lower profit in the short run may be preferable to one that earns a higher profit in the long run. Secondly, profits and cash flows are not identical.

The profit that a firm report is simply an estimate of how it is doing, an estimate that is influenced by many different accounting choices that firms make when assembling their financial reports. Cash flow is a more straightforward measure of the money flowing into and out of the company. Companies have to pay their bills with cash, not earnings, so cash flow is what matters most to financial managers. Thirdly, risk matters a great deal. A firm that earns a low but reliable profit might be more valuable than another firm with profits that fluctuate a great deal (and therefore can be extremely high or exceptionally low at different times).

Timing

Because the firm can earn a return on funds it receives, the receipt of funds sooner rather than later is preferred. In our example, although the total earnings from Rotor are smaller than those from Valve, Rotor provides much greater earnings per share in the first year. The larger returns in year 1 could be reinvested to provide greater future earnings.

Cash flows

Profits do not necessarily result in cash flows available to the shareholders. There is no guarantee that the Board of directors will increase dividends when profits increase. In addition, the accounting assumptions, and techniques that a firm adopts, can sometimes allow a firm to show a positive profit even when its cash outflows exceed its cash inflows.

Furthermore, higher earnings do not necessarily translate into a higher share price. Only when earnings' increases are accompanied by increased future cash flows is a higher share price expected. For example, a firm with a high-quality product sold in a competitive market could increase its earnings by significantly reducing its equipment maintenance expenditures. The firm's expenses would be reduced, thereby increasing its profits. But if the reduced maintenance results in lower product quality, the firm may impair its competitive position, and its share price could drop as many well-informed investors sell the share in anticipation of lower future cash flows. In this case, the earnings increase was accompanied by lower future cash flows, and therefore a lower share price.

Risk

Profit maximisation also fails to account for **risk** – the chance that actual outcomes may differ from those expected. A basic premise in managerial finance is that a trade-off exists between return (cash flow) and risk. Return and risk are, in fact, the key determinants of share price, which represents the wealth of the owners in the firm.

Profit maximisation also fails to account for risk – the chance that actual outcomes may differ from those expected. A basic premise in managerial finance is that a trade-off exists between return (cash flow) and risk. Return and risk are, in fact, the key determinants of share price, which represents the wealth of the owners in the firm.

Cash flow and risk affect share price differently: Holding risk fixed, higher cash flow is generally associated with a higher share price. In contrast, holding cash flow fixed, higher risk tends to result in a lower share price because the shareholders do not like risk. For example, when Apple's late CEO, Steve Jobs, took a leave of absence to battle a serious health issue, the firm's share suffered as a result. This occurred not because of any near-term cash flow reduction but in response to the firm's increased risk –there was a chance that the firm's lack of near-term leadership could result in reduced future cash flows. Simply put, the increased risk reduced the firm's share price. In general, shareholders are **risk-averse** – that is, they must be compensated for bearing risk. In other words, investors expect to earn higher returns on riskier investments, and they will accept lower returns on relatively safe investments. The key point, which will be fully developed in chapter 5, is that differences in risk can significantly affect the value of different investments.

risk the chance that actual outcomes may differ from those expected

risk-averse requiring compensation to bear the risk

stakeholders groups such as employees, customers, suppliers, creditors, owners, and others who have a direct economic link to the firm

4

business ethics standards of conduct or moral judgement that apply to persons engaged in commerce

What about stakeholders?

Although maximisation of shareholder wealth is the primary goal, many firms broaden their focus to include the interests of *stakeholders* as well as shareholders. **Stakeholders** are groups such as employees, customers, suppliers, creditors, owners, and others who have a direct economic link to the firm. A firm with a *stakeholder focus* consciously avoids actions that would prove detrimental to stakeholders. The goal is not to maximise stakeholder well-being but to preserve it.

The stakeholder view does not alter the goal of maximising shareholder wealth. Such a view is often considered part of the firm's 'social responsibility'. It is expected to provide long-run benefit to shareholders by maintaining positive relationships with stakeholders. Such relationships should minimise stakeholder turnover, conflicts, and litigation. The firm can better achieve its goal of shareholder wealth maximisation by fostering co-operation with its other stakeholders, rather than conflict with them

The role of business ethics

Business ethics are the standards of conduct or moral judgement that apply to persons engaged in commerce. Violations of these standards in finance involve a variety of actions: 'creative accounting', earnings management, misleading financial forecasts, insider trading, fraud, excessive executive compensation, options backdating, bribery, and kickbacks. The financial press has reported many such violations in recent years, involving well-known South African companies, such as Eskom, Tongat-Hullet, Masterbond and Macmed. As a result, the financial community is developing and enforcing ethical standards. The goal of these ethical standards is to motivate business and market participants to adhere to both the letter and the spirit of laws and regulations concerned with business and professional practice. Most business leaders believe businesses strengthen their competitive positions by maintaining high ethical standards.

Considering ethics

Robert A. Cooke, a noted ethicist, suggests that the following questions be used to assess the ethical viability of proposed action:¹

- 1. Is the action arbitrary or capricious? Does it unfairly single out an individual or group?
- 2. Does the action violate the moral or legal rights of any individual or group?
- **3.** Does the action conform to accepted moral standards?
- **4.** Are there alternative courses of action that are less likely to cause actual or potential harm?

Considering such questions before acting can help to ensure its ethical viability.

Today, many firms are addressing the issue of ethics by establishing corporate ethics policies. To promote ethical business practices in South Africa, Business Unity South Africa, an association of organised business in the country, promulgated the South African Charter of Ethical Business Practice that has set aspirational standards. Frequently, employees are required to sign a formal pledge to uphold the firm's ethics policies. Such policies typically apply to employee actions in dealing with all corporate stakeholders, including the public.

The Focus on ethics box provides an example of another aspect of ethical behaviour, namely, social responsibility in South Africa.

Robert A. Cooke, 'Business Ethics: A perspective', in *Arthur Anderson Cases on Business Ethics* (Chicago: Arthur Anderson, September 1991), pp. 2 and 5

(Focus on ethics)

Ethics and share price

An effective ethics programme can enhance corporate value by producing several positive benefits. It can reduce potential litigation and judgement costs, maintain a positive corporate image, build shareholder confidence, and gain the loyalty, commitment, and respect of the firm's

shareholders. Such actions, by maintaining and enhancing cash flows and reducing perceived risk, can positively affect the firm's share price. Ethical behaviour is, therefore viewed as necessary for achieving the firm's goal of owner wealth maximisation.

REVIEW QUESTIONS

- 1.7 What is the goal of the firm and, therefore, of all managers and employees? Discuss how one measures the achievements of this goal.
- **1.8** For what three basic reasons is profit maximisation inconsistent with wealth maximisation?
- **1.9** What is a risk? Why must risk as well as return be considered by the financial manager who is evaluating a decision alternative or action?
- **1.10** Describe the role of corporate ethics policies and guidelines and discuss the relationship that is believed to exist between ethics and share price.

(Focus on ethics)

Corporate social responsibility in South Africa

'Corporate Social Responsibility (CSR) is not a new issue. There has and will always be the need for organisations to make profits and the needs of society. CSR has been considered more strongly than ever since the early 1990s, building on a trend that had been growing since the start of the 20th century. CSR broadly refers to all an organisation's impacts on society and the need to deal responsibly with the impacts on each group of stakeholders. The King IV Report on Governance for South Africa 2016 encapsulates the idiosyncratic South African context of CSR. In the African context these moral duties are manifested in the concept of Ubuntu which is captured in the expression 'uMuntu ngumuntu ngabantu', 'I am because you are; you are because we are'. This model is the premise upon which the CSR partnership is researched herein. Ever since the publication of the King Reports on

Corporate Governance, South African businesses have sharpened their focus on their commitment to the 'triple-bottom-line'. Organisations cannot ignore the impact of social, ethical and environmental issues on their business and the economy and the cost of neglecting these issues will be high'.

 How would you view a sole proprietor's use of firm resources to pursue social goals?

Source: Extract from: Johannes, Jonathan (2016), 'Corporate Social Responsibility in South Africa: How corporate partnerships can advance the sustainability agenda', Research paper submitted in partial fulfilment of the requirements of the LLM degree at the University of the Western Cape, available online at https://etd.uwc.ac.za/bitstream/handle/11394/5519/Johannes_j_

Ilm_law_2017.pdf?sequence=1&isAllowed=y



1.3 Managerial finance function

People in all areas of responsibility within the firm must interact with finance personnel and procedures to get their jobs done. For financial personnel to make useful forecasts and decisions, they must be willing and able to talk to individuals in other areas of the firm. For example, when considering a new product, the financial manager needs to obtain sales forecasts, pricing guidelines, and advertising and promotion budget estimates from marketing personnel.

The managerial finance function can be broadly described by considering its role within the organisation, its relationship to economics and accounting, and the primary activities of the financial manager.

Organisation of the finance function

The size and importance of the managerial finance function depend on the size of the firm. In small firms, the finance function is generally performed by the accounting department. As a firm grows, the finance function typically evolves into a separate department linked directly to the company managing director or CEO through the chief financial officer (CFO). The lower portion of the organisational chart in Figure 1.1 on page 10 shows the structure of the finance function in a typical medium- to large-size firm.

Reporting to the CFO are the treasurer and the controller. The **treasurer** (the chief financial manager) typically manages the firm's cash, investing surplus funds when available and securing outside financing when needed. The treasurer also oversees a firm's pension plans and manages critical risks related to movements in foreign currency values, interest rates, and commodity prices. The **controller** (the chief accountant) typically handles the accounting activities, such as corporate accounting, tax management, financial accounting, and cost accounting. The treasurer's focus tends to be more external, whereas the controller's focus is more internal.

If international sales or purchases are important to a firm, it may well employ one or more finance professionals whose job is to monitor and manage the firm's exposure to loss from currency fluctuations. A trained financial manager can 'hedge', or protect against such a loss, at a reasonable cost by using a variety of financial instruments. These **foreign exchange managers** typically report to the firm's treasurer.

Relationship to economics

The field of finance is closely related to economics. Financial managers must understand the economic framework and be alert to the consequences of varying levels of economic activity and changes in economic policy. They must also be able to use economic theories as guidelines for efficient business operation. Examples include supply-and-demand analysis, profit-maximising strategies, and price theory. The primary economic principle used in managerial finance is **marginal cost-benefit analysis**, the principle that financial decisions should be made, and actions taken only when the added benefits exceed the added costs. Nearly all financial decisions ultimately come down to an assessment of their marginal benefits and marginal costs.

financial manager, who manages the firm's cash, oversees its pension plans and manages key risks

treasurer the firm's chief

controller the firm's chief accountant, who is responsible for the firm's accounting activities, such as corporate accounting, tax management, financial accounting, and cost accounting

foreign exchange manager the manager responsible for managing and monitoring the firm's exposure to loss from currency fluctuations

marginal cost-benefit analysis economic principle that states that financial decisions should be made, and actions are taken only when the added benefits exceed the added costs

EXAMPLE 1.2

Nokuthula Moyo is a financial manager for ABC Department Stores, a large chain of upscale department stores operating primarily in the Gauteng Province of South Africa. She is currently trying to decide whether to replace one of the firm's computer servers with a new, more sophisticated one that would both speed up processing and handle a larger volume of transactions. The new computer would require a cash outlay of R80,000, and the old computer could be sold for a net value of R20,000. The total benefits from the new server (measured in today's rands) would be R100,000. The total benefits over a similar period from the old computer (measured in today's rands) would be R30,000. Applying marginal cost-benefit analysis, Nokuthula organises the data as follows:

R100,000
R30,000
R70,000
R80,000
R20,000
R60,000
R10,000

Because the marginal (added) benefits of R70,000 exceed the marginal (added) costs of R60,000, Nokuthula recommends that the firm purchase the new computer to replace the old one. The firm will experience a net benefit of R10,000 because of this action.

Relationship to accounting

The firm's finance and accounting activities are closely related and generally overlap. In small firms, accountants often carry out the finance function, while in large firms, financial analysts often help compile accounting information. However, there are two basic differences between finance and accounting; one is related to the emphasis on cash flows and the other to decision-making.

Emphasis on cash flows

The accountant's primary function is to develop and report data for measuring the performance of the firm, assess its financial position, comply with and file reports required by securities regulators, and file and pay taxes. Using generally accepted accounting principles, the accountant prepares financial statements that recognise revenue at the time of sale (whether payment has been received or not) and recognise expenses when they are incurred. This approach is referred to as the **accrual basis** of accounting.

The financial manager, on the other hand, places primary emphasis on *cash flows*, the inflow and outflow of cash. He/she maintains the firm's solvency by planning the cash flows necessary to satisfy its obligations and to acquire assets needed to achieve the firm's goals. The financial manager uses this **cash basis** of accounting to recognise the revenues and expenses only with respect to actual inflows and outflows of cash. Whether a firm earns a profit or experiences a loss, it *must have a sufficient flow of cash to meet its obligations as they come due*.

accrual basis in the preparation of financial statements recognises revenue at the time of sale and recognises expenses when they are incurred

cash basis recognises revenues and expenses only with respect to actual inflows and outflows of cash

EXAMPLE 1.3

Revenue recognition. A company sells books for R20,000 to a customer in January who pays the invoice in February. Under the cash basis, the company recognises the sale in February when the cash is received. Under the accrual basis, the company recognises the sale in January when it issues the invoice.

Expense recognition. A company buys stationery for R10,000 in March which it pays for in April. Under the cash basis, the company recognises the purchase in April when it pays the bill. Under the accrual basis, the company recognises the purchase in March when it receives the supplier's invoice.

As the example shows, accrual accounting data does not fully describe the circumstances of a firm. Thus, the financial manager must look beyond financial statements to obtain insight into existing or developing problems. Of course, accountants are aware of the importance of cash flows, and financial managers use and understand accrual-based financial statements. Nevertheless, the financial manager, by concentrating on cash flows, should be able to avoid insolvency and achieve the firm's financial goals.

EXAMPLE 1.4
PERSONAL FINANCE

Individuals do not use accrual concepts. Rather, they rely solely on cash flows to measure their financial outcomes. Generally, individuals plan, monitor, and assess their financial activities using cash flows over a given period, typically a month or a year. Ann Bach projects her cash flows during October 2020 as follows:

	Amount	
Item	Inflow	Outflow
Net pay received	R44,000	
Rent		R10,200
Car payment		4,500
Utilities		3,000
Groceries		8,000
Clothes		7,500
Dining out		6,500
Fuel		2,600
Interest income	2,200	
Misc. expense		4,250
Totals:	R46,200	R48,350

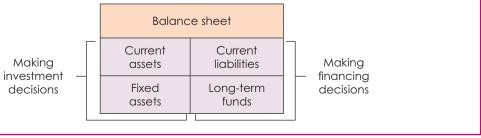
Anne subtracts her total outflows of R48,350 from her total inflows of R46,200 and finds that her net cash flow for October will be -R2,150. To cover the R2,150 shortfall, Ann will have to either borrow R2,150 (putting it on a credit card is a form of borrowing) or withdraw R2,150 from her savings. Or she may decide to reduce her outflows in areas of discretionary spending - for example, clothing purchases, dining out, or areas that make up the R4,250 of miscellaneous expense.

Decision-making

The second major difference between finance and accounting has to do with decisionmaking. Accountants devote most of their attention to the collection and presentation of financial data. Financial managers evaluate the accounting statements, develop additional data, and make decisions based on their assessment of the associated returns and risks. Of course, this does not mean that accountants never make decisions, or that financial managers never gather data, but rather that the primary focuses of accounting and finance are distinctly different.

Primary activities of the financial manager

In addition to ongoing involvement in financial analysis and planning, the financial manager's primary activities are making investment and financing decisions. Investment decisions determine what types of assets the firm holds. Financing decisions determine how the firm raises money to pay for the assets in which it invests. One way to visualise the difference between a firm's investment and financing decisions is to refer to the balance sheet shown in Figure 1.3. Investment decisions generally refer to the items that appear on the left-hand side of the balance sheet, and financing decisions relate to the items on the right-hand side. Keep in mind, though, that financial managers make these decisions based on their impact on the value of the firm, not on the accounting principles used to construct a balance sheet.



REVIEW QUESTIONS

- **1.11** In what financial activities does a corporate treasurer engage?
- **1.12** What is the primary economic principle used in managerial finance?
- **1.13** What are the major differences between accounting and finance with respect to emphasis on cash flows and decision-making?
- **1.14** What are the two primary activities of the financial manager that are related to the firm's balance sheet?



1.4 Governance and agency

As noted earlier, most owners of a company are normally distinct from its managers. Nevertheless, managers are entrusted to only take actions or make decisions that are in the best interest of the firm's owners, its shareholders. In most cases, if managers fail to act on behalf of the shareholders, they will also fail to achieve the goal of maximising shareholder wealth. To help ensure that managers act in ways that are consistent with the interests of shareholders and mindful of obligations to other stakeholders, firms aim to establish sound corporate governance practices.

Corporate governance

Corporate governance refers to the rules, processes, and laws by which companies are operated, controlled, and regulated. It defines the rights and responsibilities of the corporate participants such as the shareholders, Board of directors, officers and managers, and other stakeholders, as well as the rules and procedures for making corporate decisions. A well-defined corporate governance structure is intended to benefit all corporate stakeholders by ensuring that the firm is run lawfully and ethically, following best practices, and subject to all corporate regulations.

A firm's corporate governance is influenced by both internal factors such as the shareholders, Board of directors, and officers as well as external forces such as clients, creditors, suppliers, competitors, and government regulations. The corporate organisation depicted earlier in Figure 1.1 on page 10 helps to shape a firm's corporate governance structure. In particular, the shareholders elect a board of directors, who in turn hire officers or managers to operate the firm in a manner consistent with the goals, plans, and policies established and monitored by the Board on behalf of the shareholders.

Individual versus institutional investors

To better understand the role that shareholders play in shaping a firm's corporate governance, it is helpful to differentiate between the two broad classes of owners – individuals and institutions. Generally, **individual investors** own relatively small quantities of shares, and as a result, do not typically have sufficient means to directly influence a firm's corporate governance. To influence the firm, individual investors often find it necessary to act as a group by voting collectively on corporate matters. The most important corporate matter individual investors vote on is the election of the firm's Board of directors. The Corporate Board's first responsibility is to the shareholders. The Board not only sets policies that specify ethical practices and provide for the protection of stakeholder interests, but it also monitors managerial decision-making on behalf of investors.

Although they also benefit from the presence of the Board of directors, institutional investors have advantages over individual investors when it comes to influencing the corporate governance of a firm. **Institutional investors** are investment professionals that are paid to manage and hold large quantities of securities on behalf of individuals, businesses, and governments. Institutional investors include banks, insurance companies, mutual funds, and pension funds.

corporate governance the rules, processes, and laws by which companies are operated, controlled and regulated

individual investors investors who own relatively small quantities of shares to meet personal investment goals

institutional investors

investment professionals, such as banks, insurance companies, mutual funds, and pension funds, that are paid to manage and hold large quantities of securities on behalf of others Unlike individual investors, institutional investors often monitor and directly influence a firm's corporate governance by exerting pressure on management to perform or communicating their concerns to the firm's Board.

These large investors can also threaten to exercise their voting rights or liquidate their holdings if the Board does not respond positively to their concerns. Because individual and institutional investors share the same goal, individual investors benefit from the shareholder activism of institutional investors.

Government regulation

Unlike the impact that clients, creditors, suppliers, or competitors can have on a firm's corporate governance, government regulation generally shapes the corporate governance of all firms. During the past decade, corporate governance has received increased attention due to several high-profile corporate scandals involving abuse of corporate power and, in some cases, alleged criminal activity by corporate officers. The misdeeds derive from two main types of issues: (1) false disclosures in financial reporting and other material information releases, and (2) undisclosed conflicts of interest between companies and their analysts, auditors, and attorneys and between corporate directors, officers, and shareholders.

In South Africa, the Companies Act 71 of 2008 applies to all South African companies. The Act seeks to promote transparency and accountability in the corporate sector and has provisions that ensure these are legally enforceable. Corporate governance is institutionalised through the King Reports on Corporate Governance ('King Codes'). The King Codes are published by the King Committee that was formed under the auspices of the Institute of Directors of Southern Africa in 1992.

The agency issue

The financial manager has to maximise the wealth of the firm's owners. Shareholders give managers decision-making authority over the firm; thus, managers can be viewed as the agents of the firm's shareholders. Technically, any manager who owns less than 100 percent of the firm is an agent acting on behalf of other owners. Refer to the dashed horizontal line in Figure 1.1, which is representative of the classic **principal-agent relationship**, where the shareholders are the principals. In general, a contract is used to specify the terms of a principal-agent relationship. This arrangement works well when the agent makes decisions that are in the principal's best interest but does not work well when the interests of the principal and agent differ.

In theory, most financial managers would agree with the goal of shareholder wealth maximisation. However, managers are also concerned with their personal wealth, job security, and fringe benefits. Such concerns may cause managers to make decisions that are not consistent with shareholder wealth maximisation. For example, financial managers may be reluctant or unwilling to take more than moderate risk if they perceive that taking too much risk might jeopardise their job or reduce their personal wealth.

The agency problem

An important theme of corporate governance is to ensure the accountability of managers in an organisation through mechanisms that try to reduce or eliminate the principal-agent problem; however, when these mechanisms fail, agency problems arise. Agency problems arise when managers deviate from the goal of maximisation of shareholder wealth by placing their personal goals ahead of the goals of shareholders. These problems, in turn, give rise to agency costs. Agency costs are costs borne by shareholders due to the presence or avoidance of agency problems, and in either case, represent a loss of shareholder wealth. For example, shareholders incur agency costs when managers fail to make the best investment decision or when managers have to be monitored to ensure that the best investment decision is made because either situation is likely to result in a lower share price.

principal-agent
relationship an
arrangement in which
an agent acts on
behalf of a principal. for
example, shareholders of
a company (principals)
elect management
(agents) to act on
their behalf

agency problems problems that arise when managers place personal goals ahead of the goals of shareholders

agency costs costs arising from agency problems that are borne by shareholders and represent a loss of shareholder wealth

incentive plans

management compensation plans that tie management compensation to share price; one example involves the granting of share options

share options options extended by the firm that allows management to benefit from increases in share prices over time

performance plans plans that tie management compensation to measures such as eps or growth in eps. Performance shares and/ or cash bonuses are used as compensation under these plans.

performance shares ordinary shares given to management for meeting stated performance goals

cash bonuses cash paid to management for achieving certain performance goals

Management compensation plans

In addition to the roles played by corporate boards, institutional investors, and government regulations, corporate governance can be strengthened by ensuring that managers' interests are aligned with those of shareholders. A common approach is to structure management compensation to correspond with firm performance. In addition to combating agency problems, the resulting performance-based compensation packages allow firms to compete for and hire the best managers available. The two key types of managerial compensation plans are incentive plans and performance plans.

Incentive plans tie management compensation to share price. One incentive plan grant **share option** to management. If the firm's share price rises over time, managers will be rewarded by being able to purchase shares at the market price in effect at the time of the grant and then to resell the shares at the prevailing higher market price.

Many firms also offer **performance plans** that tie management compensation to performance measures such as earnings per share (EPS) or growth in EPS. Compensation under these plans is often in the form of performance shares or cash bonuses. **Performance shares** are ordinary shares given to management because of meeting the stated performance goals, whereas **cash bonuses** are cash payments tied to the achievement of certain performance goals.

The execution of many compensation plans has been closely scrutinised, considering the past decade's corporate scandals and financial woes. Both individual and institutional shareholders, as well as the public, continue to publicly question the appropriateness of the multi-million rand compensation packages that many corporate executives receive.

Matter of fact

In South Africa, the remuneration of CEOs has been questioned from several quarters. Gerald Seegers, Head of People and Organisation for PwC Africa, says:

'Executive pay continues to be in the spotlight, with everyone from institutional shareholders, the government, the media and other interested stakeholders, having an opinion on it. One cannot underestimate the value that an effective CEO can add to a company – it is a high-profile position, particularly in a listed environment. Although companies are starting to accept the notion of fair play, more should be done to increase the awareness around fair and responsible remuneration on a national scale.'

The 2019 PwC Report reviewed the executive pay of the top 10 listed companies on the JSE, which account for 62% of the total market capital invested. The median pay for CEOs in 2018 across all sectors was R5,4m (2017: R5,2m). For CFOs, the average

was R3,8m (2017: R3,6m) and for executive directors R3,3m (2017: R3,1m).

Top bosses generally received attractive incentives for meeting company goals. Short-term incentives also often referred to as (annual incentives) are also paid to compensate executives for achieving the short-term business strategy. The intention is to ensure achievement of goals based on KPIs with the directors or management charged with the task of maximising shareholder wealth. There is also an increased focus on aligning companies' environmental, social and governance (ESG) activities with the United Nations Sustainable Development Goals (SDGs). However, South African companies are not yet under any obligation to consider these factors. However, the PwC Report observes pressure from both stakeholders as well as international practice to prioritise ESG factors.

Source: PwC's 11th edition of the Executive directors: Practices and remuneration trends report 2019 Most studies have failed to find a strong relationship between the performance that companies achieve and the compensation that CEOs receive. In South Africa, the 2019 PwC's Executive Directors – Practices and Remuneration Trends Report recommends that CEOs commanding high remuneration should equally back it up by accepting a challenging set of key performance indicators. Furthermore, companies are expected to have contingency plans in place to recover incentives paid to executives who would have overseen large corporate failures. The goal of the King IV Report on Corporate Governance in South Africa is to standardise remuneration disclosure. Research by PwC shows that 83% of the top 40 JSE-listed companies have adopted some form of remuneration disclosure.

The threat of takeover

When a firm's internal corporate governance structure is unable to keep agency problems in check, rival managers will likely try to gain control of the firm. Because agency problems represent a misuse of the firm's resources and impose agency costs on the firm's shareholders, the firm's ordinary shares are generally depressed, making the firm an attractive takeover target. The threat of takeover by another firm that believes it can enhance the troubled firm's value by restructuring its management, operations, and financing can provide a strong source of external corporate governance. The constant threat of a takeover tends to motivate management to act in the best interests of the firm's owners. For example, when Cell C, the third largest mobile network operator in South Africa, faced the possibility of a takeover by Telkom in 2019 because of unsustainable debt levels, it restructured its business model for the benefit of shareholders to stave off the takeover bid.

Unconstrained, managers may have other goals in addition to sharing price maximisation. Still, much of the evidence suggests that share price maximisation – the focus of this book – is the primary goal of most firms.

REVIEW QUESTIONS

- **1.15** What is corporate governance?
- **1.16** Define agency problems and describe how they give rise to agency costs. Explain how a firm's corporate governance structure can help avoid agency problems.
- **1.17** How can the firm structure management compensation to minimise agency problems? What is the current view with regard to the execution of many compensation plans?
- **1.18** How do market forces both shareholder activism and the threat of takeover act to prevent or minimise the *agency problem?* What role do institutional investors play in shareholder activism?

Summary Focus on value

Chapter 1 established the primary goal of the firm – to maximise the wealth of the owners for whom the firm is being operated. For public companies, value at any time is reflected in the share price. Therefore, management should act only on those opportunities that are expected to create value for owners by increasing the share price. Doing this requires management to consider the returns (magnitude and timing of cash flows), the risk of each proposed action, and their combined effect on value.

Review of learning outcomes



Define finance and the managerial finance function. Finance is the science and art of managing money. It affects virtually all aspects of a business. Managerial finance is concerned with the duties of the *financial manager* working in a business.

Financial managers administer the financial affairs of all types of businesses – private and public, large and small, profit-seeking and not for profit. They perform such varied tasks as developing a financial plan or budget, extending credit to customers, evaluating proposed large expenditures, and raising money to fund the firm's operations.

- Describe the legal forms of business organisation. The legal forms of business organisation are the sole proprietorship, the partnership, and the company. The company is dominant in terms of business receipts, and its owners are its ordinary and preference shareholders. Shareholders expect to earn a return by receiving dividends or by realising gains through increases in the share price.
- Describe the goal of the firm and explain why maximising the value of the firm is an appropriate goal for a business. The goal of the firm is to maximise its value and therefore, the wealth of its shareholders. Maximising the value of the firm means running the business in the interest of those who own it the shareholders. Because shareholders are paid after other stakeholders, it is generally necessary to satisfy the interests of other stakeholders to enrich shareholders.
- Describe how the managerial finance function is related to economics and accounting. All areas of responsibility within a firm interact with finance personnel and procedures. The financial manager must understand the economic environment and rely heavily on the economic principle of marginal cost-benefit analysis to make financial decisions. Financial managers use accounting but concentrate on cash flows and decision-making.
- Identify the primary activities of the financial manager. The primary activities of the financial manager, in addition to ongoing involvement in financial analysis and planning, are making investment decisions and making financing decisions.
- Describe the nature of the principal-agent relationship between the owners and managers of a company and explain how various corporate governance mechanisms attempt to manage agency problems. This separation of owners and managers of the typical firm is representative of the classic principal-agent relationship, where the shareholders are the principals and managers are the agents. This arrangement works well when the agent makes decisions that are in the principal's best interest but can lead to agency problems when the interests of the principal and agent differ. A firm's corporate governance structure is intended to help ensure that managers act in the best interests of the firm's shareholders, and other stakeholders, and it is usually influenced by both internal and external factors.

Opener-in-review

In the chapter opener, you read about the collapse of corporate governance at Eskom. What does this collapse of corporate governance teach us about the agency problem in companies?

Self-test problems (Solutions in Appendix B)

LO 4

ST1-1

Emphasis on cash flows: Bata is a shoe importer located in South Africa that resells its import products to local retailers. Last year Bata imported R25 million worth of shoes from around the world, all of which were paid for before shipping. On receipt of the shoes, the importer immediately resold them to local retailers for R30 million. To allow its retail clients time to resell the shoes, Bata sells to retailers on credit.

Before the end of its business year, Bata collected 85% of its outstanding accounts receivable

- **a.** What is the accounting profit that Bata generated for the year?
- b. Did Bata have a successful year from an accounting perspective?
- c. What is the financial cash flow that Bata generated for the year?
- **d.** Did Bata have a successful year from a financial perspective?
- e. If the current pattern persists, what is your expectation for the future success of Bata?

Warm-up exercises



E1_1

Ann and Jack have been partners for several years. Their firm, A & J Tax Preparation, has been successful, as the pair agrees on most business-related questions. One disagreement, however, concerns the legal form of their business. Ann has tried for the past two years to get Jack to agree to incorporate. She believes that there is no downside to incorporating and sees only benefits. Jack strongly disagrees; he thinks that the business should remain a partnership forever.

First, take Ann's side and explain the positive side of incorporating the business. Next, take Jack's side, and state the advantages to remaining in partnership. Lastly, what information would you need if you were asked to decide for Ann and Jack?



E1-2

The end-of-year parties at Jet Stores are known for their extravagance. Management provides the best food and entertainment to thank the employees for their hard work. During the planning for this year's bash, a disagreement broke out between the treasurer's staff and the controller's staff. The treasurer's staff contended that the firm was running low on cash and might have trouble paying its bills over the coming months; they requested that cuts be made to the budget for the party. The controller's staff felt that any cuts were unwarranted as the firm continued to be very profitable.

Can both sides be right? Explain your answer



E1-3

You have been made treasurer for a day at DSTV, which is developing technology for video conferencing. A manager of the satellite division has asked you to authorise a capital expenditure in the amount of R100,000. The manager states that this expenditure is necessary to continue a long-running project designed to use satellites to allow video conferencing anywhere on the planet. The manager admits that the satellite concept has been surpassed by recent technological advances in telephony, but he feels that DSTV should continue the project. His reasoning is because R25 million has already been spent over the past 15 years on this project. Although the project has little chance to be viable, the manager believes it would be a shame to waste the money and time already spent.

Use marginal cost-benefit analysis to make your decision regarding whether you should authorise the R100,000 expenditure to continue the project.



E1-4

Recently, some branches of Taste of Africa Restaurant have dropped the practice of allowing employees to accept tips. Customers who once said, 'Keep the change' now have to get used to waiting for their nickels. Management even instituted a policy of requiring that the change be thrown if a customer drives off without it. As a frequent customer who gets coffee and doughnuts for the office, you notice that the lines are longer and that more mistakes are being made in your order.

Explain why tips could be viewed as similar to share options and why the delays and incorrect orders could represent a case of *agency costs*. If tips are gone forever, how could Taste of Africa Restaurant reduce these agency costs?

Problems



P1-1

Liability comparisons: Nisha Patel has invested R250,000 in Patel Family Bazaars. The firm has recently declared bankruptcy and has R600,000 in unpaid debts. Explain the nature of payments, if any, by Ms Patel in each of the following situations.

- **a.** Patel Family Bazaars is a sole proprietorship owned by Ms Patel.
- **b.** Patel Family Bazaars is a 50-50 *partnership* of Ms Patel and Christopher Black.
- c. Patel Family Bazaars is a corporation.



P1-2

Accrual income versus cash flow for a period: Van Schaik Bookstore supplies textbooks to college and university bookstores. The books are shipped with a proviso that they must be paid for within 30 days but can be returned for a full refund credit within 90 days. In 2009, Van Schaik shipped and billed book titles totalling R7,600,000. Collections, net of return credits, during the year totalled R6,900,000. The company spent R3,000,000 acquiring the books that it shipped.

- **a.** Using accrual accounting and the preceding values show the firm's net profit for the past year.
- **b.** Using cash accounting and the preceding values show the firm's net cash flow for the past year.
- **c.** Which of these statements is more useful to the financial manager? Why?

Personal finance problems



P1-3

Cash flows: It is typical for Jane to plan, monitor, and assess her financial position using cash flows over a given period, typically a month. Jane has a savings account and her bank loans money at 6% per year while it offers short-term investment rates of 5%. Jane's cash flows during August were as follows:

Item	Cash inflow	Cash outflow
Clothes		R10,000
Interest received	R4,500	
Dining out		5,000
Groceries		8,000
Salary	45,000	
Car payment		3,500
Utilities		2,800
Mortgage		12,000
Fuel		2,220

- a. Determine Jane's total cash inflows and cash outflows.
- **b.** Determine the net cash flow for August.
- **c.** If there is a shortage, what are a few options open to Jane?
- **d.** If there is a surplus, what would be a prudent strategy for her to follow?



P1-4

Marginal cost-benefit analysis and the goal of the firm: Karabo Mabaso capital budgeting analyst for Silver Lakes Motors has been asked to evaluate a proposal. The manager of the automotive division believes that replacing the robotics used on the heavy truck gear line will produce total benefits of R5,600,000 (in today's rands over the next five years. The existing robotics would produce benefits of R4,000,000 (also in today's rands) over that same period. An initial cash investment of R2,200,000 would be required to install the new

equipment. The manager estimates that the existing robotics can be sold for R700,000. Show how Karabo will apply *marginal cost-benefit analysis* techniques to determine the following:

- **a.** The marginal (added) benefits of the proposed new robotics.
- **b.** The marginal (added) cost of the proposed new robotics.
- **c.** The net benefit of the proposed new robotics.
- **d.** What should Karabo recommend that the company do? Why?
- **e.** What factors besides the costs and benefits should be considered before the final decision is made?



P1-5

Identifying agency problems, costs, and resolutions: Explain why each of the following situations is an agency problem and what costs to the firm might result from it. Suggest how the problem might be dealt with short of firing the individual(s) involved.

- **a.** The front desk receptionist routinely takes an extra 20 minutes of lunchtime to run personal errands.
- **b.** Division managers are padding cost estimates to show short-term efficiency gains when the costs come in lower than the estimates.
- **c.** The firm's chief executive officer has had secret talks with a competitor about the possibility of a merger in which she would become the CEO of the combined firms.
- **d.** A branch manager lays off experienced full-time employees and staffs customer service positions with part-time or temporary workers to lower employment costs and raise this year's branch profit. The manager's bonus is based on profitability.

Ethics problem



P1-6

What does it mean to say that managers should maximise shareholder wealth 'subject to ethical constraints'? What ethical considerations might enter decisions that result in cash flow and share price effects that are less than they might otherwise have been?

Spreadsheet exercise

Assume that Van Dyck Carpets (Pty) Ltd is considering the renovation and/or replacement of some of its older and out-dated carpet-manufacturing equipment. Its objective is to improve the efficiency of operations in terms of both speed and reduction in the number of defects. The company's finance department has compiled pertinent data that will allow it to conduct a *marginal cost-benefit analysis* for the proposed equipment replacement.

The cash outlay for new equipment would be approximately R6,000,000. The net book value of the old equipment and its potential net selling price add up to R2,500,000. The total benefits from the new equipment (measured in today's rands) would be R9,000,000. The benefits of the old equipment over a similar period (measured in today's rands) would be R3,000,000.

To do

Create a spreadsheet to conduct a marginal cost-benefit analysis for Van Dyck Carpets (Pty) Ltd, and determine the following:

- a. The marginal (added) benefits of the proposed new equipment.
- **b.** The marginal (added) cost of the proposed new equipment.
- c. The net benefit of the proposed new equipment.
- d. What would you recommend that the firm do? Why?

CHAPTER 1 CASE STUDY

Management remuneration and financial performance of JSE firms

Extract from: Elize Kirsten and Elda du Toit (2018), 'The relationship between remuneration and financial performance for companies listed on the Johannesburg Stock Exchange', South African Journal of Economic and Management Sciences, Volume 21. Issue. pp. 1–10.

'The executive directors of a company are the agents of the shareholders and should manage the company in the best interest of the shareholders, not only for personal gain. It is therefore important for companies to ensure that they implement remuneration policies which will result in motivated employees who will execute decisions and actions which are in the best interest of the shareholders. However, it is widely acknowledged that the relationship between company performance and executive remuneration is weak. This implies that executives are still rewarded excessive remuneration regardless of the performance of their companies'.

Having stated the preceding background, Kirsten and du Toit (2018) conducted a study to determine whether a relationship exists between the performance-based remuneration of executive directors and the financial performance of South African companies. Their study focused on consumer goods and services companies listed on the Johannesburg Stock Exchange (JSE). The results of their study found that the remuneration policies for executive directors were directly affected by the share price of the company rather than profitability or size. They concluded that the link between executive director remuneration and share performance might be an indication that remuneration policies are based on the share price and are thus directly connected to the principle of shareholder wealth maximisation.

To do

- a. Is the goal of profit maximisation synonymous with the goal of wealth maximisation?
- b. What goal do you think management should pursue, and why?
- c. What goal do shareholders want management to pursue, and why?
- **d.** What agency problems could be arising from the actions of management if they are pursuing the profit maximisation goal?
- **e.** Recommend actions that should be taken to align management interests with those of shareholders.