

# C03

## MAPPING OF C03 MATHS CONTENT TO CERT BA 2017 SYLLABUS

### MOVEMENT OF TOPICS FROM C03 IN 2011 SYLLABUS TO APPROPRIATE SUBJECTS IN 2017 SYLLABUS

C03 2011 Fundamentals of Business Mathematics			2017 Syllabus subjects showing relocation of Maths topics	
A	Basic Mathematics (in part)	15%	BA3 Fundamentals of Financial Accounting	D. Analysis of Financial Statements
B	Probability (in part)	15%	BA2 Fundamentals of Management Accounting	D. Decision Making
C	Summarising and Analysing Data (split between MA and EOC subjects)	15%	BA2 Fundamentals of Management Accounting	D. Decision Making
D	Relationships between Variables	15%	BA1 Fundamentals of Business Economics	A. Macroeconomic and Institutional context of Business
E	Forecasting	15%	BA1 Fundamentals of Business Economics	C. Informational Context of business
F	Financial Mathematics	15%	BA1 Fundamentals of Business Economics	C. Informational Context of business
G	Spreadsheets (discontinued in the revised CIMA syllabus)	10%	BA1 Fundamentals of Business Economics	C. Informational Context of Business
			BA1 Fundamentals of Business Economics	D. Financial Context of Business
			BA2 Fundamentals of Management Accounting	D. Decision Making

### MATHS CONTENT IN 2017 SYLLABUS

Cert BA 2017 content		Cert BA 2011 C03 content
BA1: A1 Explain the principal factors that affect the level of a country's national income and the impact of changing economic growth rates and prices on business	e. Calculate indices for price inflation and national income growth using either base or current weights and use indices to deflate a series	C03: C2 b, c and d
BA1: C1 Apply techniques to communicate business data as information to business stakeholders	a. explain the difference between data and information and the characteristics of good information	C03: C1 a and b
	b. identify relevant data from graphs, charts and diagrams	C03: C1 c and d

BA1: C2 Demonstrate the uses of big data and analytics for understanding the business context	a. describe the principal business applications of big data and analytics	NEW
	b. demonstrate the relationship between data variables	C03: D1a, D1b, D2 a and D2 b
	c. demonstrate trends and patterns using an appropriate techniques	C03: E1a, E1b and E1c
	d. prepare a trend equation using either graphical means or regression analysis	C03: E1b, D2a, D2b, E2c
	e. identify the limitations of forecasting models	C03: E2d
BA1: D2 Apply financial mathematical techniques in a business decision-making context	a. calculate future values of an investment using both simple and compound interest	C03: F1a and F1b
	b. calculate the present value of a future cash sum, an annuity and a perpetuity	C03: F1c, F1d, F2a, F2b and F2c
BA2: D1 Demonstrate the impact of risk	a. explain the concepts of risk and uncertainty	C03: B1 a, b (only multiplication rules)
	b. demonstrate the use of expected values and joint probabilities in decision making	C03: B2 a, b and C
	c. calculate summary measures of central tendency and dispersion for both grouped and ungrouped data	C03: C1c, C1d, C1e and C1f
	d. demonstrate the use of the normal distribution	C03: C1g, C1h and C1i
BA2: D2 Demonstrate the use of appropriate techniques for short-term decision making	a. apply breakeven analysis	C03: A1a, A1b, A2a and A2b
	b. demonstrate make or buy decisions	C03: A1a, A1b, A2a and A2b
	c. calculate the profit maximising sales mix after using limiting factor analysis	C03: A1a, A1b, A2a and A2b
BA2: D3 Demonstrate the use of appropriate techniques for long-term decision making	a. explain the time value of money	
	b. apply financial mathematics	C03: F1a, F1b, F1c, F1d, F2a and F2b
	c. Calculate the net present value, internal rate of return and payback for an investment or project	C03: F2c
BA3: D1 Identify information provided by accounting ratios	a. identify the information provided by the calculation of accounting ratios	C03: A1a and A1b
	b. identify reasons for the changes in accounting ratios	
BA3: D2 Calculate basic accounting ratios	a. calculation of profitability ratios	C03: A1 and A1b
	b. calculation of liquidity ratios	C03: A1 and A1b
	c. calculation of risk ratios	C03: A1 and A1b

### CLOs COMPLETELY GONE OUT OF C03 (NOT IN BA1, BA2 OR BA3)

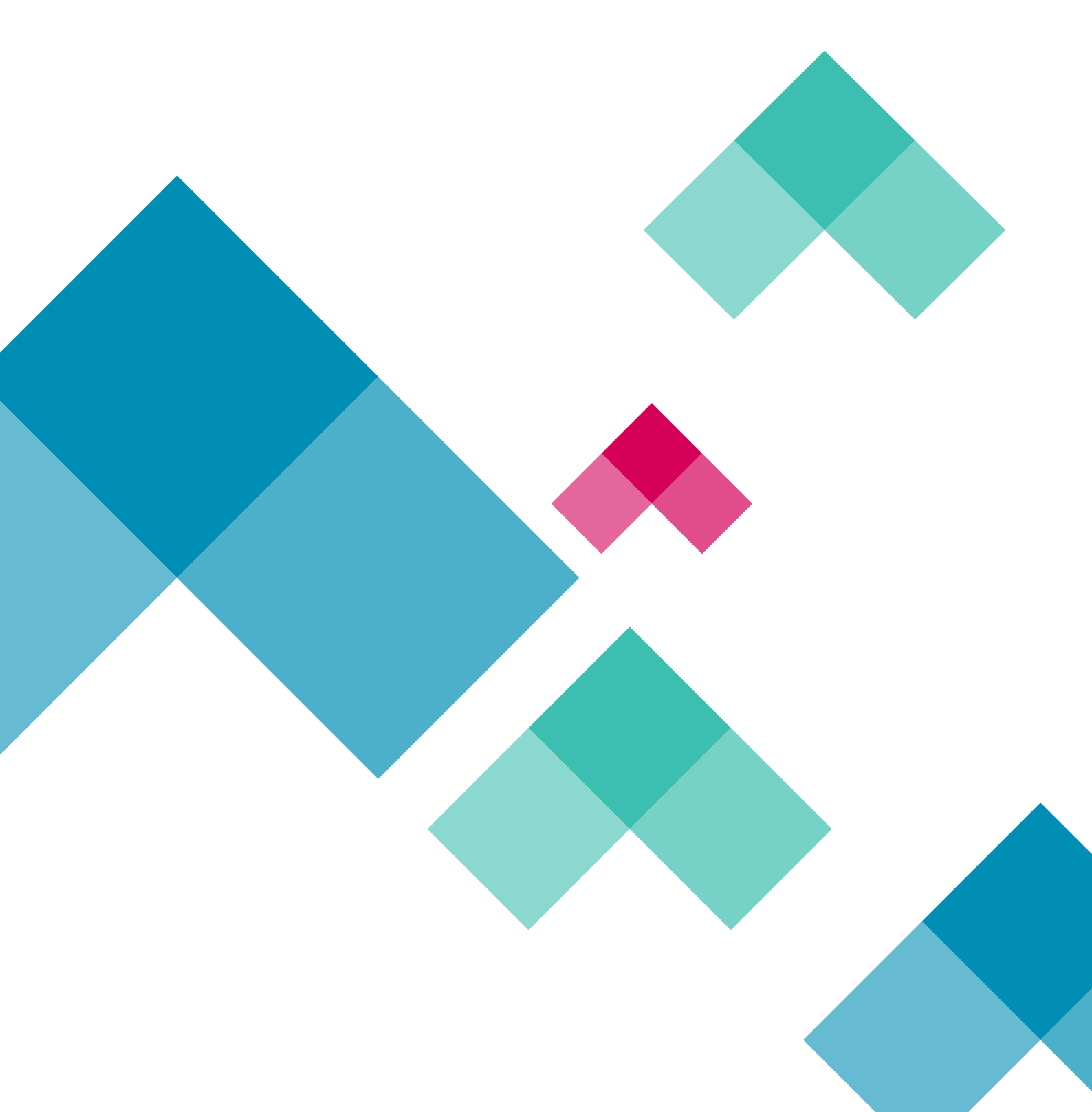
A1 c Calculate answers to appropriate decimal places or significant figures

A2 c Solve simple inequalities

B1 b (only addition rules) and c Calculate a simple conditional probability

C2 a Apply the Pareto distribution and the '80:20' rule

G1 a, b and c Apply spreadsheets to calculate and present data (LLO)



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