

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

This document consists of ${\bf 11}$ printed pages and ${\bf 1}$ blank page.



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	2 . Myn myn						
1	2 Work out $\frac{3}{7} \times \frac{5}{8}$. Give your answer as a fraction.						
	Give your answer as a fraction.						
	Answer [1]						
2	Amisi travelled from Johannesburg to Cairo. She changed 500 Egyptian pounds (EGP) to South African rand (ZAR) when the exchange rate was $1 \text{ EGP} = 1.24 \text{ ZAR}.$						
	Calculate the amount she received.						
	Answer ZAR [1]						
3	Write the following numbers correct to one significant figure.						
	(a) 7682						
	Answer(a) [1]						
	(b) 0.07682						
	<i>Answer(b)</i> [1]						
4	Mars is ninety-one million, seven hundred thousand kilometres from Earth.						
	(a) Write this number in figures.						
	(b) Write your answer to part (a) in standard form.						
	$Answer(b) \qquad [1]$						

		hu	
	3	WW.M	14
5	A bowl of fruit contains only 8 peaches, 5 oranges and One piece of fruit is chosen at random.	MMM. M	maths
	Write down the probability that it is		
	(a) an orange,		
		Answer(a)	
	(b) not a peach.		
		Answer(b)	[1]
		Answer C =	[2]
7	$\mathbf{a} = \begin{pmatrix} 4\\ -1 \end{pmatrix} \qquad \qquad \mathbf{b} = \begin{pmatrix} -2\\ -3 \end{pmatrix}$		
	Work out $\mathbf{a} + 3\mathbf{b}$.		
		Answer	[2]
			[-]

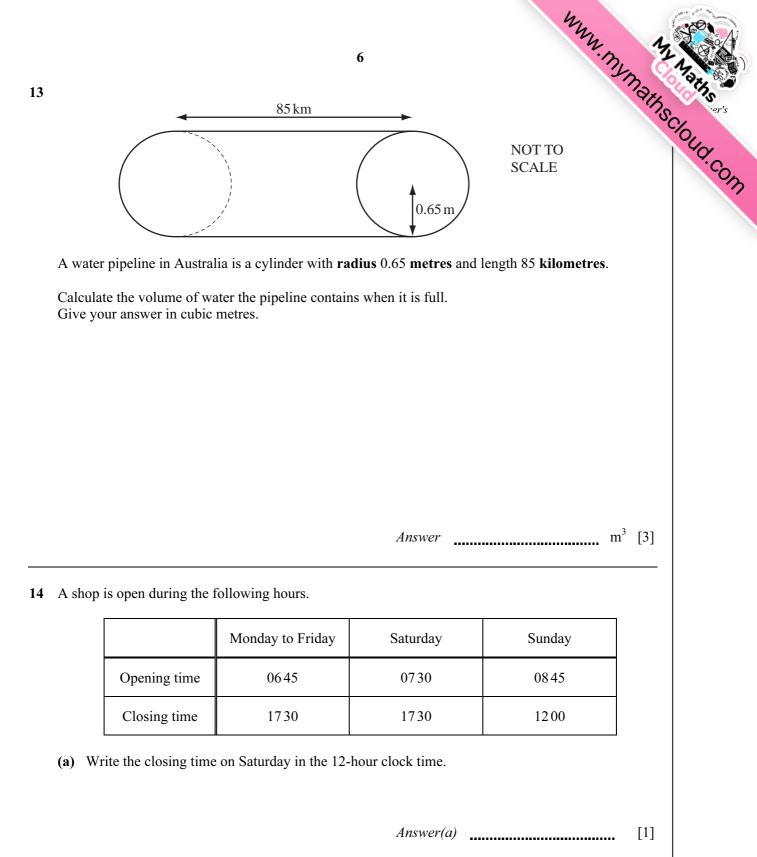
Work out.				- n - 0 0
(a) $4-5-6$				aths.
(a) $4 - 3 - 0$				200
		Answer(a)		mymathsciou
(b) $\frac{-8}{-2}$				
- 2				
		Answer(b)		[1]
Patrick buys some bananas for \$35. He sells all the bananas for \$40.60.				
Calculate his percentage profit.				
Calculate his percentage profit. Show all your working.				
		Answer		% [3]
		Answer		% [3]
Show all your working.				. % [3]
Show all your working.	15	Answer 16	17 18	. % [3]
Show all your working. 12 13 14 From the list of numbers, write down	15			. % [3]
Show all your working.	15			% [3]
Show all your working. 12 13 14 From the list of numbers, write down	15	16		
Show all your working. 12 13 14 From the list of numbers, write down	15	16	17 18	
Show all your working. 12 13 14 From the list of numbers, write down (a) a factor of 36,	15	16 Answer(a)	17 18	[1]
Show all your working. 12 13 14 From the list of numbers, write down (a) a factor of 36, (b) a multiple of 8,	15	16 Answer(a)	17 18	[1]
Show all your working. 12 13 14 From the list of numbers, write down (a) a factor of 36,	15	16 Answer(a)	17 18	[1]

5
11 An athlete runs 1500 metres in 4 minutes.
Calculate her average speed in
(a) metres per minute,
Answer(a) m/min [1]
(b) kilometres per hour.

Answer(b) km/h [2]

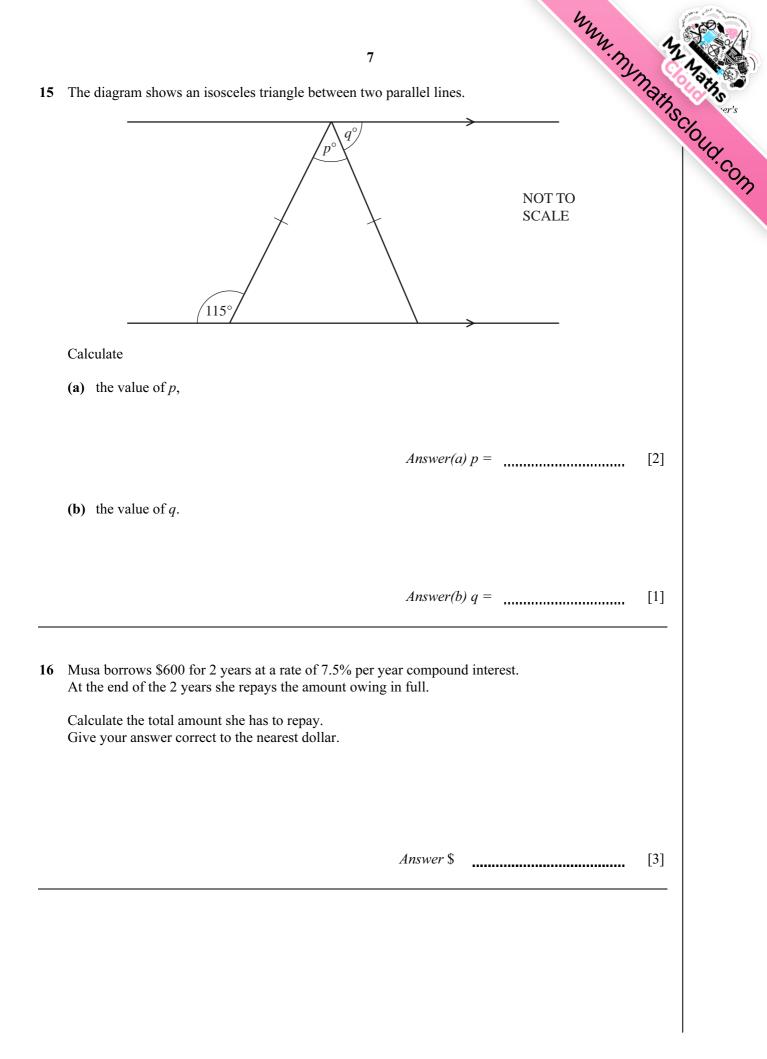
12 In a traffic survey of 125 cars the number of people in each car was recorded.

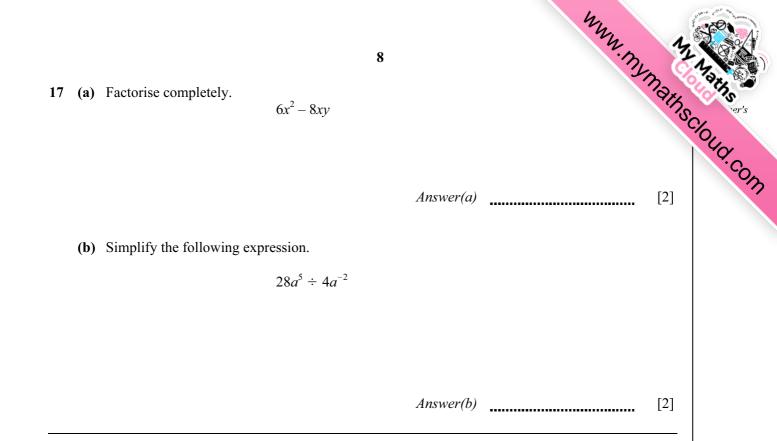
	Number of people in each car	1	2	3	4	5		
	Frequency	50	40	10	20	5		
Find								
(a) the range,								
				[1]				
(b)	the median,							
			Анс	war(h)			[1]	
(c)	the mode.		Ans	Answer(b)			[1]	
			Ans	wer(c)			[1]	



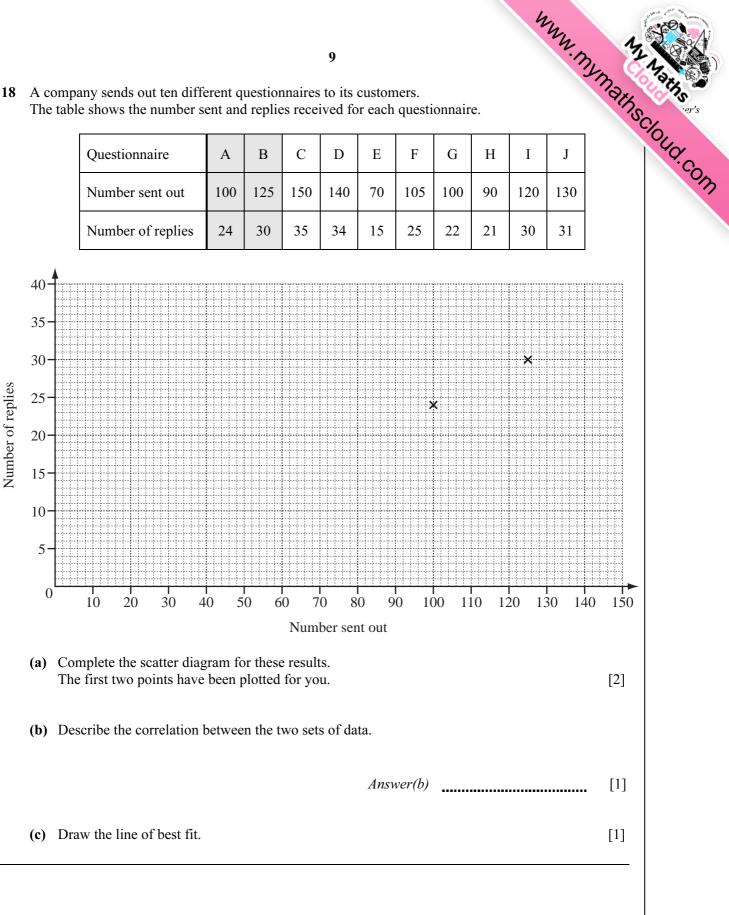
(b) Calculate the total number of hours the shop is open in one week.

Answer(b) h [2]

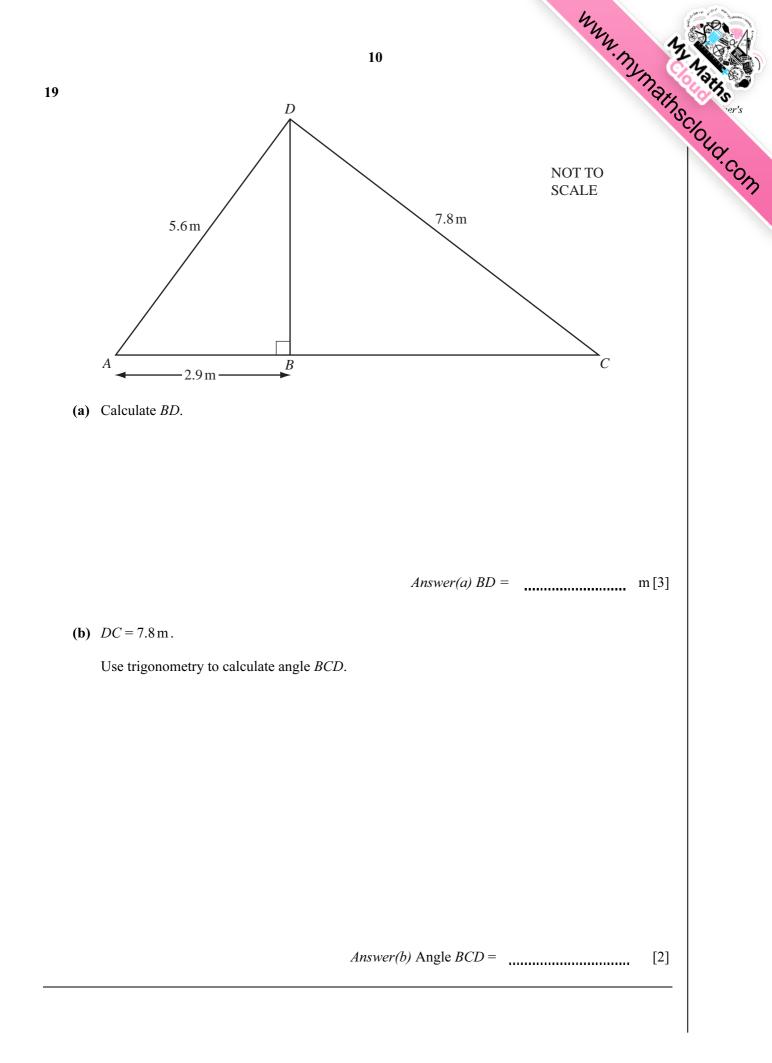


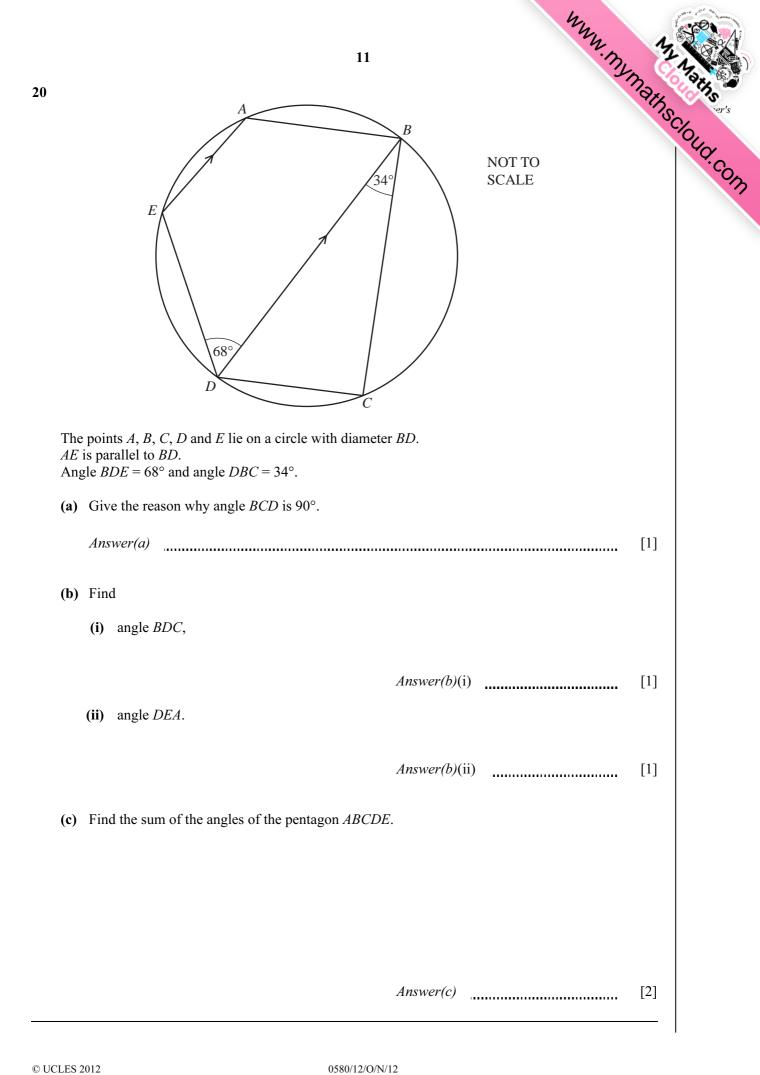


A company sends out ten different questionnaires to its customers. 18 The table shows the number sent and replies received for each questionnaire.



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