

CANDIDATE NAME								
CENTRE NUMBER		CANDIDATE NUMBER						
MATHEMATICS			0580/13					
Paper 1 (Core)		n	May/June 2015					
			1 hour					
Candidates answer on the Question Paper.								
Additional Materi	als: Electronic calculator Tracing paper (optional)	Geometrical instruments						

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 an HB pencil for any diagrams or graphs. Do not use staples, paper clips, 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.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of 8 printed pages.

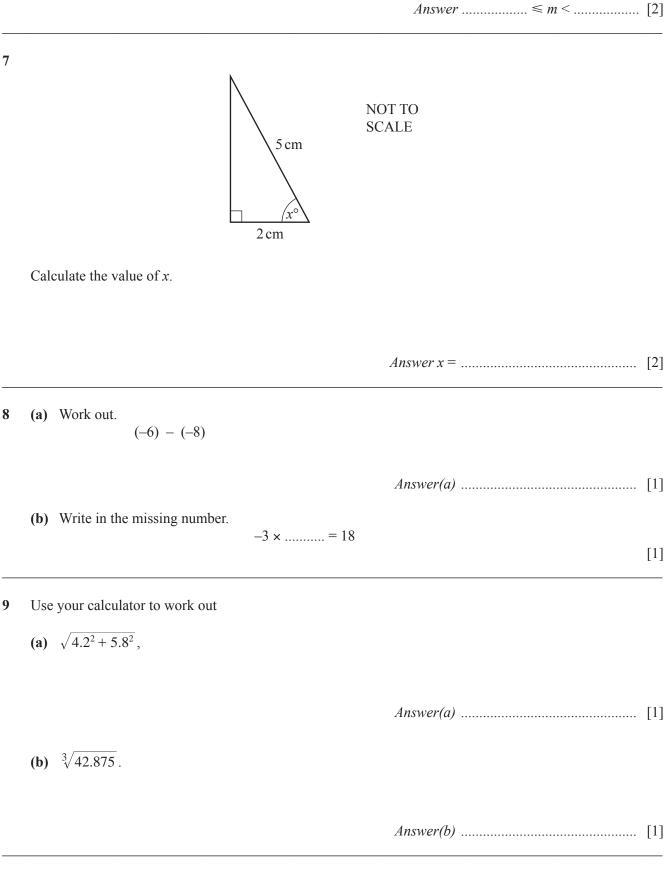


What is the value of the digit 7 in 43782?

1

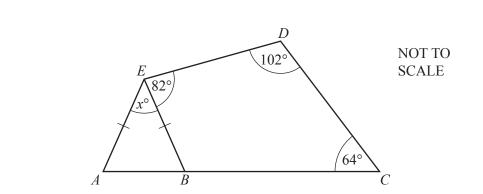
6 The mass of a car is 1400 kg correct to the nearest hundred kilograms.

Complete the statement about the mass, *m* kilograms, of the car.



10 (a) Write 270 000 in standard form.

- (b) Work out the mean of 6.4×10^7 and 8.5×10^8 . Write your answer in standard form.

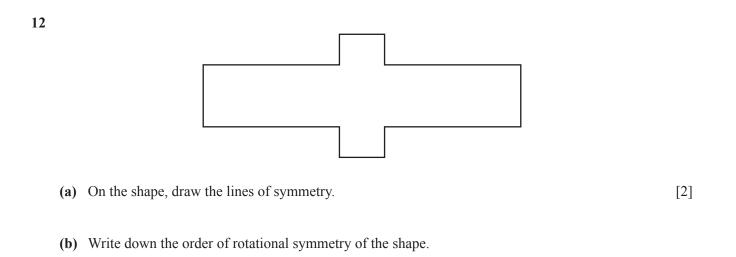


The diagram shows an isosceles triangle *ABE* and a quadrilateral *BCDE*. *ABC* is a straight line.

Calculate the value of *x*.

11

Answer x = [3]



Answer(b) [1]

13 James buys a drink for 2 euros (\notin).

Work out the cost of the drink in pounds (£) when $\pounds 1 = \pounds 1.252$. Give your answer correct to 2 decimal places.

14 Without using a calculator, work out $1\frac{7}{8} \div \frac{5}{9}$.

Show all your working and give your answer as a fraction in its lowest terms.

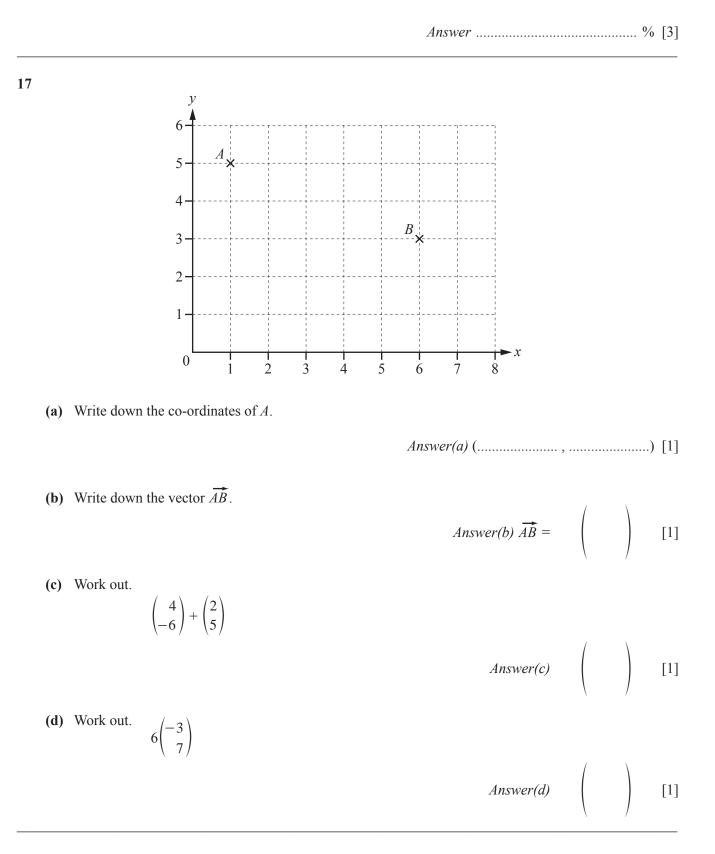
15 Solve the equation.

3(x+4) = 2(4x-1)

Answer $x = \dots$ [3]

16 In a sale, the cost of a coat is reduced from \$85 to \$67.50.

Calculate the percentage reduction in the cost of the coat.



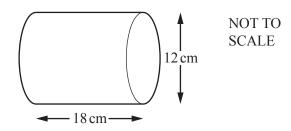
Give your answer correct to 2 significant figures.

			Answer((a)	[2]	
(b)	Write the following numbers in order of size, smallest first.					
	57% 0.	5077	0.507	$\frac{5}{9}$		
	Answer(b)		<	<	[2]	
(a)	Write down the prime number betwee	n 62 and 70.				
			Answer((a)	[1]	
(b)	Write 54 as the product of its prime fa	ctors.				
			Answer(Ъ)	[2]	
(c)	Find the highest common factor (HCF	c) of 54 and 90).			
	(a) (b)	 57% 0. <i>Answer(b)</i> (a) Write down the prime number betwee (b) Write 54 as the product of its prime fa 	 57% 0.5077 <i>Answer(b)</i> (a) Write down the prime number between 62 and 70. (b) Write 54 as the product of its prime factors. 	 (b) Write the following numbers in order of size, smallest first. 57% 0.5077 0.507 <i>Answer(b)</i> <	57% 0.5077 0.507 $\frac{5}{9}$ Answer(b) (a) Write down the prime number between 62 and 70. Answer(a) (b) Write 54 as the product of its prime factors. Answer(b)	

Question 20 is printed on the next page.

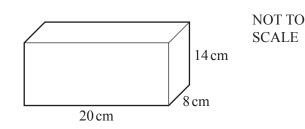
0580/13/M/J/15

20 (a) A cylinder has diameter 12 cm and length 18 cm.



Calculate the volume of the cylinder.

Answer(a) cm^{3} [2]



(i) Calculate the surface area of this cuboid.

Answer(b)(i) cm^2 [3]

(ii) Write your answer to part (b)(i) in square millimetres.

Answer(b)(ii) mm² [1]

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(b)

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