Cambridge IGCSE	Cambridge International Examinations Cambridge International General Certificate of Secondary Education					
CANDIDATE NAME						
 CENTRE NUMBER				CANDIDATE NUMBER		
MATHEMATICS	S				0580/13	
Paper 1 (Core)					May/June 2015	
					1 hour	
Candidates ans	nswer on the Question Paper.					
Additional Mate	erials:	Electronic Tracing pa	calculator aper (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.



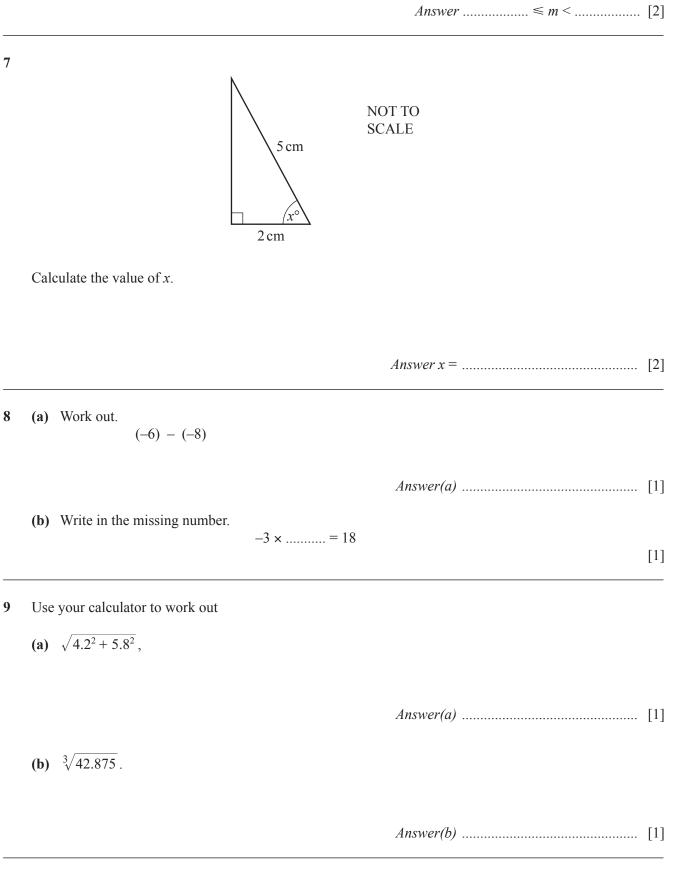
2

1 What is the value of the digit 7 in 43782?

		Answer	[1]
2		NOT TO SCALE	
	Find the value of x .		
		Answer $x =$	[1]
3	Write 0.88 as a fraction in its simplest form.		
		Answer	[2]
4	Ahmed and Babar share 240 g of sweets in the ratio 7:3.		
	Calculate the amount Ahmed receives.		
		Answer	.g[2]
5	Factorise completely. $9x^2 - 6x$		
		Answer	[2]

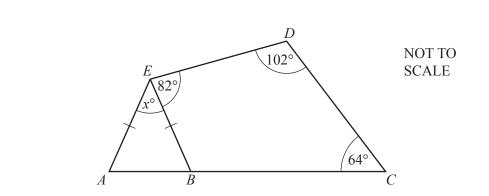
6 The mass of a car is 1400 kg correct to the nearest hundred kilograms.

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



10 (a) Write 270 000 in standard form.

- *Answer(a)* [1]
- (b) Work out the mean of 6.4×10^7 and 8.5×10^8 . Write your answer in standard form.

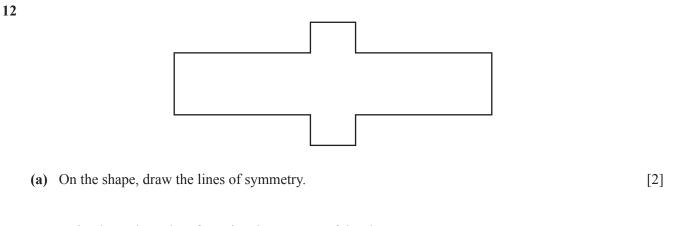


The diagram shows an isosceles triangle *ABE* and a quadrilateral *BCDE*. *ABC* is a straight line.

Calculate the value of *x*.

11

Answer x = [3]



(b) Write down the order of rotational symmetry of the shape.

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.

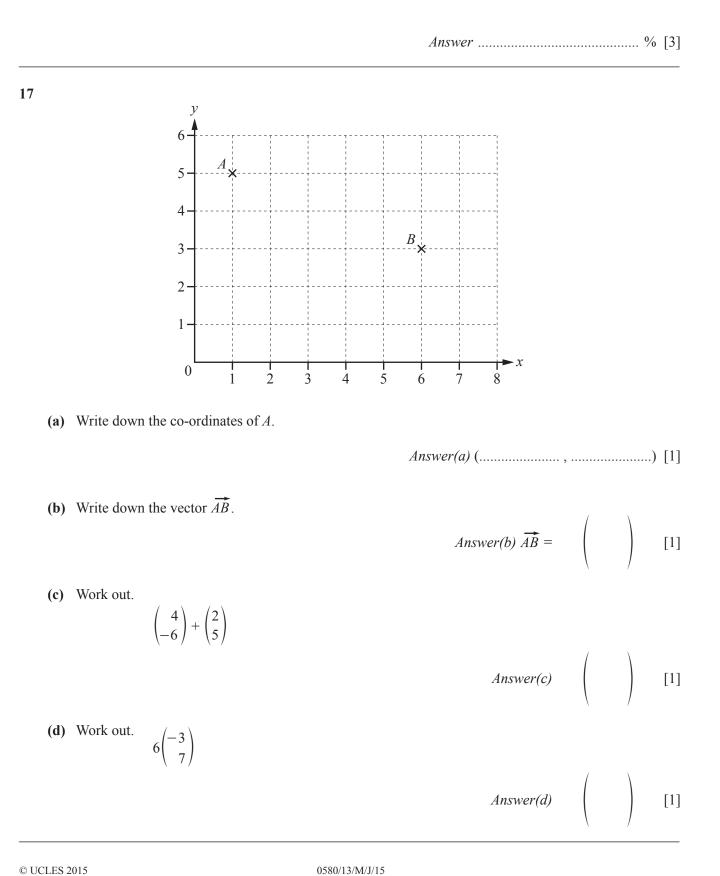
15 Solve the equation.

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.



18	(a)	Calculate	6.4 + 7.3		
			19.56 - 3.51		

Give your answer correct to 2 significant figures.

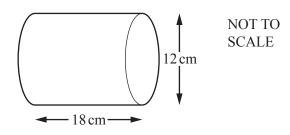
			Answer((a)		[2]
Write the followin	ng numbers in	order of size, sma	allest first.			
	57%	0.5077	0.507	$\frac{5}{9}$		
	Ans	wer(b)	<	<	<	[2]
Write down the pr	rime number l	between 62 and 70).			
			Answer((a)		[1]
Write 54 as the pr	oduct of its p	rime factors.				
			Answer(Ъ)		[2]
Find the highest c	ommon facto	r (HCF) of 54 and	90.			
	Write down the pr	57% Ans Write down the prime number b Write 54 as the product of its pr	57% 0.5077 <i>Answer(b)</i>	Write the following numbers in order of size, smallest first. 57% 0.5077 0.507 Answer(b) Write down the prime number between 62 and 70. Write 54 as the product of its prime factors.	Write the following numbers in order of size, smallest first. 57% 0.5077 0.507 $\frac{5}{9}$ Answer(b) $< \dots < < \dots < < < \dots < < < < < < < < < < <$	57% 0.5077 0.507 $\frac{5}{9}$ Answer(b) Write down the prime number between 62 and 70. Write 54 as the product of its prime factors. Mrite 54 as the product of its prime factors.

Answer(c) [2]

Question 20 is printed on the next page.

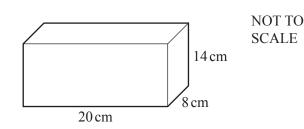
19

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



Calculate the volume of the cylinder.

Answer(a) cm³ [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]

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

(b)

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by he publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.