	Cambridge IGCSE	Cambridge International Examinations Cambridge International General Certificate of Secondary Education													
	CANDIDATE NAME														
	CENTRE NUMBER									ANDIDAT UMBER	re 🗌				
	MATHEMATIC	CS											0	580)/13
N	Paper 1 (Core))										M	ay/Ju	ne 2	2018
и Ш														1 h	our
и Ш	Candidates answer on the Question Paper.														
26565162*	Additional Materials: Electronic calculator Tracing paper (optiona				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.

This document consists of **12** printed pages.

.....[1]

.....[1]

..... m/s [1]

1	Write 75%	as a	fraction	in it	s simplest form.	
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2 Factorise. $w+w^3$

3 Liz takes 65 seconds to run 400 m.

Calculate her average speed.

4 Calculate.

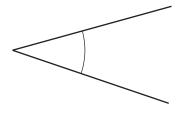
$$\sqrt{\frac{18^2}{0.5+1.75}}$$

.....[1]

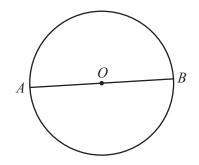
5 Work out the value of 4^{-2} .

.....[1]

6 (a) Write down the mathematical name of the type of angle marked.



-[1]
- (b) A and B are points on the circumference of a circle, centre O.



Write down the mathematical name of the line *AB*.

[Turn over

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4

- **10** (a) Write 209 802 correct to the nearest thousand.
 - (b) Write 4123 correct to 3 significant figures.

......[1]

.....[1]

11 Jez and Soraya share \$2500 in the ratio Jez : Soraya = 7 : 3.Work out how much Soraya receives.

\$.....[2]

12 The probability that Kim wins a game is 0.72. In one year Kim will play 225 games.

Work out an estimate of the number of games Kim will win.

.....[2]

- 13 (a) Write 4.82×10^{-3} as an ordinary number.
 - (b) Write 52 million in standard form.

.....[1]

.....[1]

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14 Solve.

$$\frac{1-p}{3} = 4$$

 $p = \dots [2]$

15 The mass, *m* kilograms, of a package is 6.2 kg, correct to 1 decimal place.Complete the statement about the value of *m*.

5

16

x cm

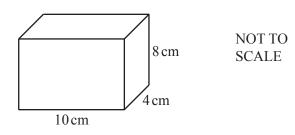
NOT TO SCALE

The diagram shows a right-angled triangle.

Calculate the value of *x*.

 $x = \dots [2]$

17 The diagram shows a cuboid.



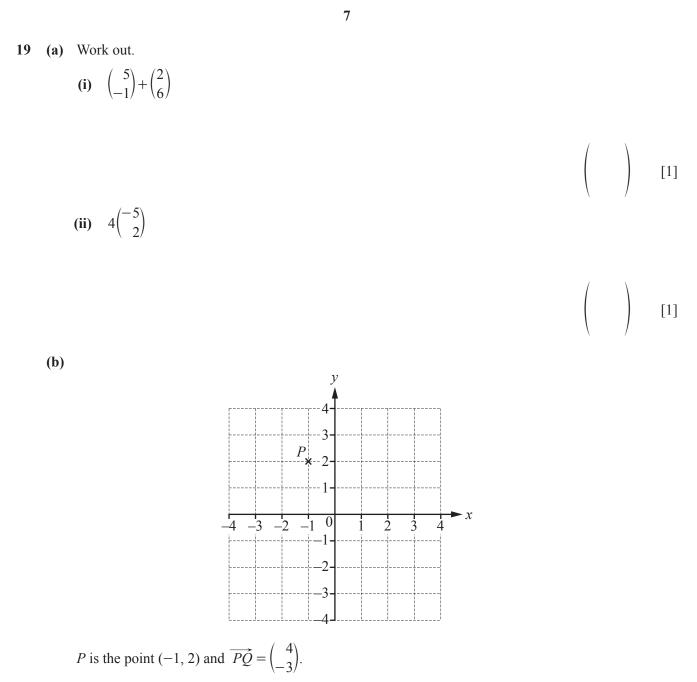
Work out the surface area of this cuboid.

......cm² [3]

18 Without using a calculator, work out $\frac{2}{3} \div 1\frac{1}{5}$.

You must show all your working and give your answer as a fraction in its simplest form.

.....[3]



Find the co-ordinates of Q.

(.....)[1]

20 (a) Line L has the equation y = 5x + 12.

Write down the gradient of line *L*.

.....[1]

(b) Another line, *M*, has the equation y = 8x + 3.

Write down the equation of the line parallel to line M that passes through the point (0, 6).

.....[2]

.....[1]

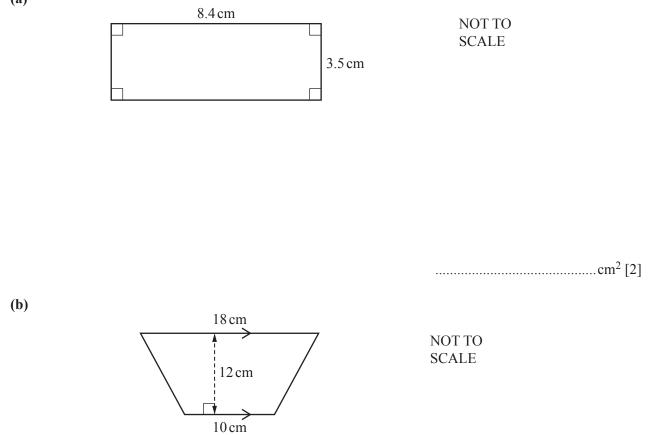
(ii) Find the actual distance, in kilometres, from town A to town B.

21

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22 Work out the area of each shape.





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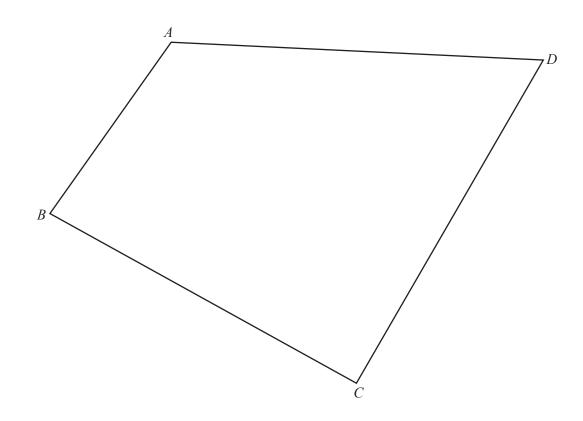
23 Solve the simultaneous equations. You must show all your working.

3x - 2y = 232x + 5y = 9

11



Question 24 is printed on the next page.



12

(a)	0	ght edge and compasses only , construct the perpendicular bisector of <i>BC</i> . r construction arcs.	[2]
(b)	0	ght edge and compasses only , construct the bisector of angle <i>BCD</i> .	[2]
(c)	Shade the reg	ion inside <i>ABCD</i> that is	
	• and	nearer to B than to C	
	•	nearer to CD than to BC.	[1]

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