Cambridge Assessment



Cambridge IGCSE[™]

	CANDIDATE NAME			
	CENTRE NUMBER		CANDIDATE NUMBER	
*	MATHEMATIC	S		0580/12
რ	Paper 1 (Core)		Oc	tober/November 2020
ω				1 hour
* 2 7 6 2 3 3 5 6 7 9	You must answe	er on the question paper.		
0	You will pood:	Competitional instruments		

You will need: Geometrical instruments

INSTRUCTIONS

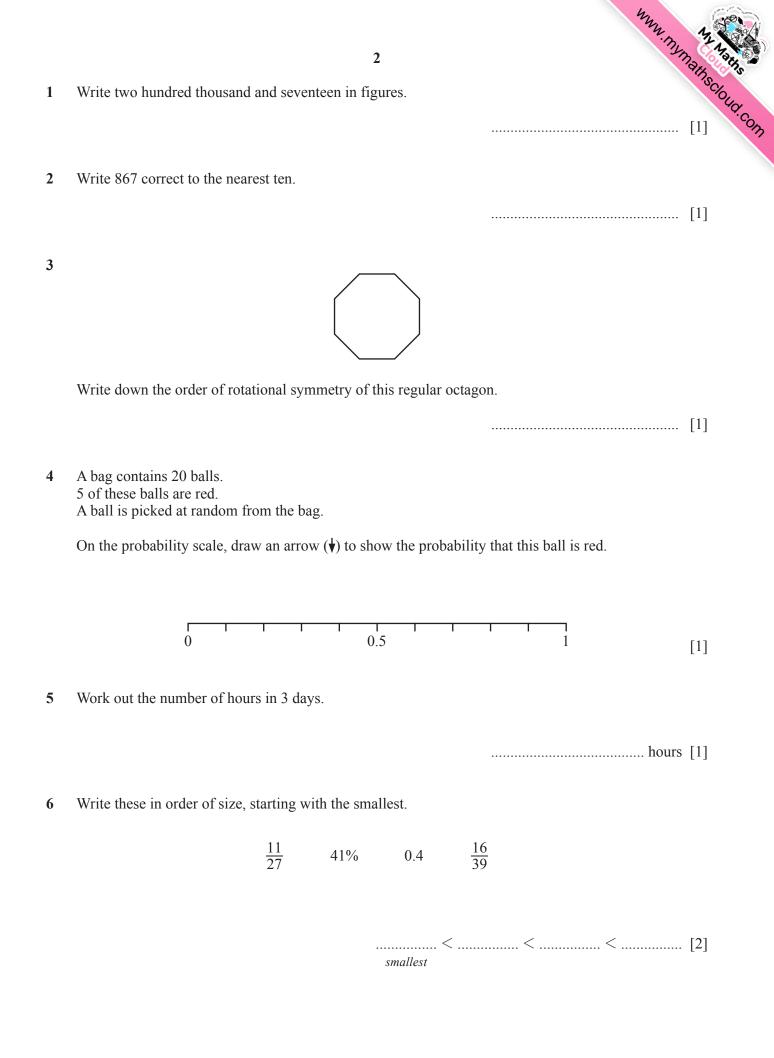
- Answer all questions. •
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs. •
- Write your name, centre number and candidate number in the boxes at the top of the page. •
- Write your answer to each question in the space provided.
- Do not use an erasable pen or correction fluid. •
- Do not write on any bar codes. •
- You should use a calculator where appropriate. •
- You may use tracing paper.
- You must show all necessary working clearly.
- Give non-exact numerical answers correct to 3 significant figures, or 1 decimal place for angles in • degrees, unless a different level of accuracy is specified in the question.

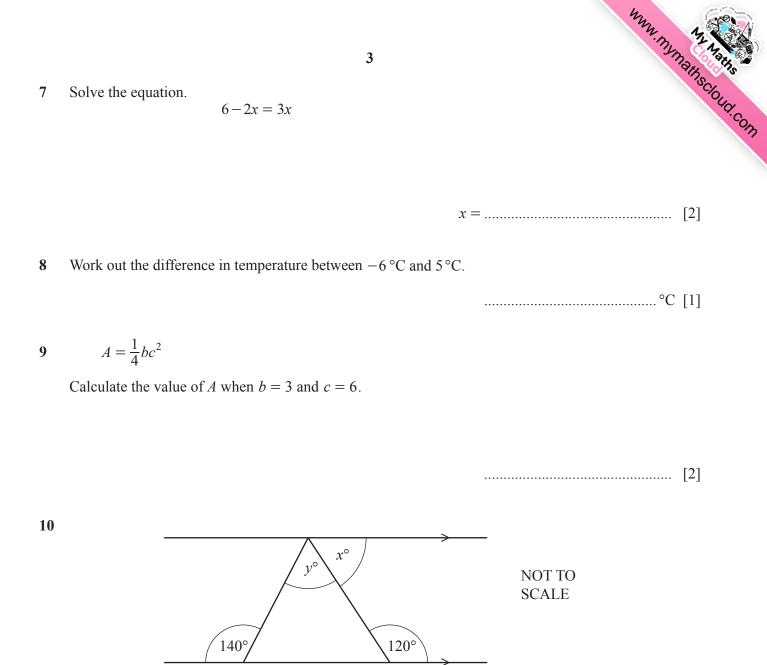
This document has **12** pages. Blank pages are indicated.

For π , use either your calculator value or 3.142.

INFORMATION

- The total mark for this paper is 56.
- The number of marks for each question or part question is shown in brackets [].

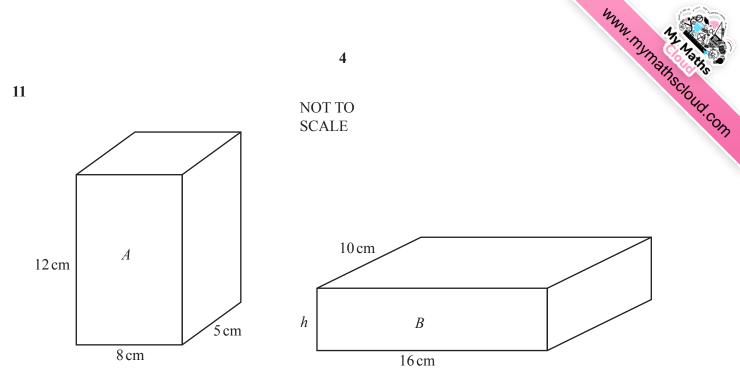




The diagram shows a triangle drawn between a pair of parallel lines.

Find the value of *x* and the value of *y*.

<i>x</i> =	
<i>y</i> =	[3]



The diagram shows cuboid *A* and cuboid *B*. Cuboid *A* has the same volume as cuboid *B*.

Calculate the height, h, of cuboid B.

12 Fernando records the favourite sport of each of 20 people.

5 Fernando records the favourite sport of each of 20 people. football cricket rugby cricket rugby rugby football football rugby football									Ansus Scious	
football	cricket	rugby	cricket	rugby	rugby	football	football	rugby	football	·· COM
cricket	rugby	tennis	football	tennis	football	rugby	cricket	football	cricket	

(a) Complete the frequency table to show this information. You may use the tally column to help you.

Favourite sport	Tally	Frequency
Cricket		
Football		
Rugby		
Tennis		

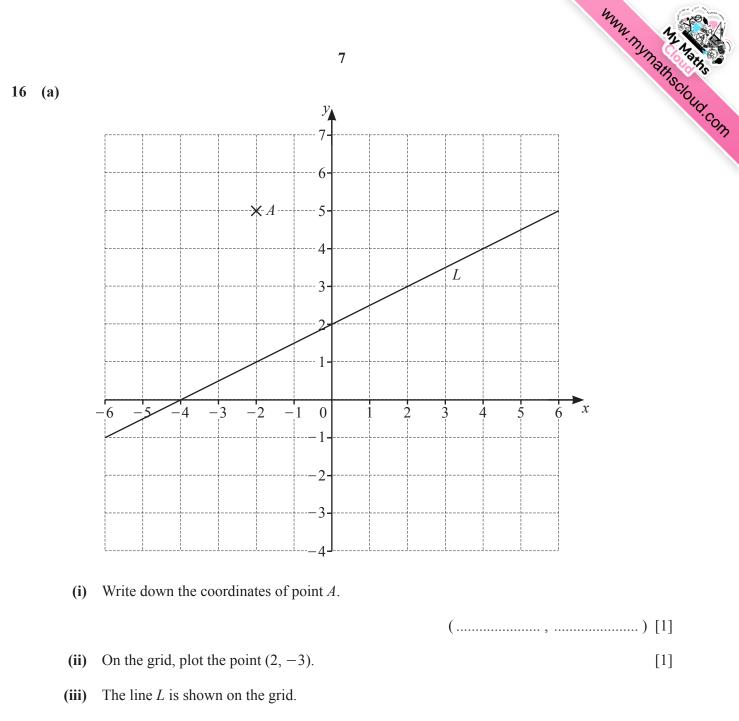
[2]

(b) Fernando wants to draw a pie chart to show this information.

Work out the sector angle for football.

13 Increase 42 by 16%.

						WWW. INSTRUMENTS CIOUS COM
			6			Unaits attack
14	These are the first four terms	of a sequer	nce.			ISCIOUS.
		17	10	3	-4	'd.com
	(a) (i) Find the next term.					
	(ii) Write down the term	a to torm r	la for oo	ntinuina	this soon	
	(ii) Write down the tern			nunung	ins sequ	
						[1]
	(b) These are the first four te	erms of a d	ifferent se	equence.		
		-2	2	6	10	
	Find an expression for th	e <i>n</i> th term.				
						[2]
15						
13			C			
		/				NOT TO
				<i>h</i> cm		SCALE
		/				
	$A \qquad 6 \mathrm{cm}$	$\frac{1}{B}$				
	The area of triangle <i>ABC</i> is 2	$27 \mathrm{cm}^2$ and	AB = 6 c	em.		
	Calculate the value of <i>h</i> .					
	carearate the value of n.					



Find the equation of the line *L* in the form y = mx + c.

y = [2]

(b) Write down the equation of the line parallel to y = 5x + 6 that passes through (0, -7).

y = [1]

.....[3]

18 (a) The length, *l* cm, of a pencil is 18 cm, correct to the nearest centimetre.Complete the statement about the value of *l*.

(b) (i) Write 9.314×10^5 as an ordinary number. [1] (ii) Calculate $(4.1 \times 10^{-3}) \times (8.9 \times 10^7)$. Give your answer in standard form. [2] (c) Calculate $\sqrt{(8+4 \times 75^{0.6})}$.



Calculate the area of the rectangle.

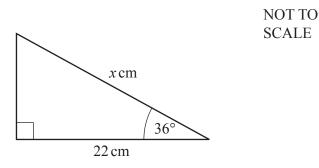
20 Alex and Chris share sweets in the ratio Alex : Chris = 7 : 3. Alex receives 20 more sweets than Chris.

Work out the number of sweets Chris receives.



21 Write 825 as the product of its prime factors.

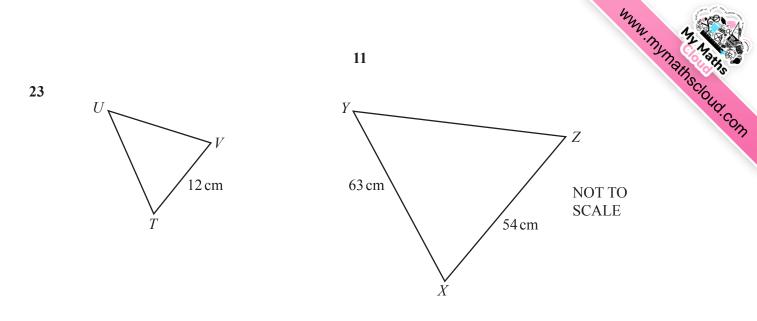




10

Show that the value of x is 27.2, correct to 3 significant figures.

[3]



The diagram shows two similar triangles TUV and XYZ.

Calculate UT.

UT = cm [2]



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