Cambridge Assessment



Cambridge IGCSE[™]

	CANDIDATE NAME			
	CENTRE NUMBER		CANDIDATE NUMBER	
*	CAMBRIDGE	INTERNATIONAL MATHEMATICS	0607/	12
ນ 	Paper 1 (Core)		October/November 20	21
			45 minut	es
	You must answ	er on the question paper.		
υ	You will need:	Geometrical instruments		

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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. •
- Calculators must not be used in this paper.
- You may use tracing paper. •
- You must show all necessary working clearly and you will be given marks for correct methods even if your answer is incorrect.
- All answers should be given in their simplest form.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [].



Formula List

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A, of circle, radius r.	$A = \pi r^2$
Circumference, <i>C</i> , of circle, radius <i>r</i> .	$C = 2\pi r$
Curved surface area, A , of cylinder of radius r , height h .	$A=2\pi rh$
Curved surface area, A , of cone of radius r , sloping edge l .	$A = \pi r l$
Curved surface area, A , of sphere of radius r .	$A=4\pi r^2$
Volume, V , of prism, cross-sectional area A , length l .	V = Al
Volume, V , of pyramid, base area A , height h .	$V = \frac{1}{3}Ah$
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of cone of radius r , height h .	$V = \frac{1}{3}\pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$







Measure the bearing of town Q from town P.

......[1]



[Turn over

17	Solve the equation.	2(x+3) = 20	l	6				www.mymainscloud.com
				20			<i>x</i> =	[2]
18		$\frac{4}{5}$	0.9	$\frac{20}{7}$	3	π	5.7	
	From the list of numb	ers write dov	vn					
	(a) the integer,							
	(b) the irrational nur	nber.						F13
								[1]

The table shows the number of televisions in each of 20 homes. 19

Number of televisions	0	1	2	3	4
Frequency	2	8	7	2	1

(a) Write down the mode.

(b) Find the mean.

.....[3]

20 Find the lowest common multiple (LCM) of 24 and 60.

.....[2]

21 Simplify fully.

$$\frac{2}{y} \div \frac{6}{y^2}$$



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22 A bag contains 13 red beads and 7 blue beads. Two beads are taken out of the bag at random.

Complete the tree diagram.



[2]

Questions 23 and 24 are printed on the next page.



[2]

23 A class has 30 students.5 students play both football and cricket.15 students play football and 13 students play cricket.

Use this information to complete the Venn diagram.



The diagram shows one interior angle of a regular polygon.

Find the number of sides of the polygon.

.....[3]

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