Cambridge Assessment

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CANDIDATE NAME	
CENTRE NUMBER	CANDIDATE NUMBER
CAMBRIDGE INTERNATIONAL	MATHEMATICS 0607/01
Paper 1 (Core)	For examination from 2020
SPECIMEN PAPER	45 minutes

You must answer on the question paper.

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.
- Calculators must **not** be used in this 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 [].

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



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, C, of circle, radius r.	$C = 2\pi r$
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, <i>V</i> , of prism, cross-sectional area <i>A</i> , length <i>l</i> .	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, <i>V</i> , of sphere of radius <i>r</i> .	$V = \frac{4}{3}\pi r^3$



How much change does Joe get from \$5?



4

5



 [2]

7	6 Change 5.6 square centimetres into square millimetres.	WWW. My Mains My Mains Cloud com
8	Write the following numbers in standard form.	
	(a) 346	
		[1]
	(b) 0.00216	
		[1]

9 Estimate the answer to the following calculation by rounding each number to 1 significant figure. Show all your working.

$\frac{19.4 + 32.96}{0.472}$



7

Draw the enlargement of the pentagon, centre *P*, scale factor 3. 10

Peter is x years old. 11 Jane is 4 years older than Peter.

Write down an expression, in terms of x, for Jane's age.

.....[1]

[2]



12 Make *r* the subject of this formula.

13 Solve the simultaneous equations.

6x + 10y = 262x + 5y = 12





(b) Find the gradient of the line *AB*.

......[2]

15 A biased coin is spun two times.

The probability of the coin showing a head is $\frac{1}{5}$.

(a) Complete the tree diagram.



(b) Find the probability of the coin showing a head both times.

......[2]

[1]



Write down the letter of the diagram that shows

(a)
$$y = -x - 1$$
,

(b) y = 2x + 1.

......[1]



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