



CANDIDATE
NAME

--

CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--

0607/13

May/June 2024

45 minutes

You must answer on the question paper.

You will need: Geometrical instruments

- 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.

- 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 8 pages.

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 . $A = \pi rl$

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 . $V = \frac{1}{3}Ah$

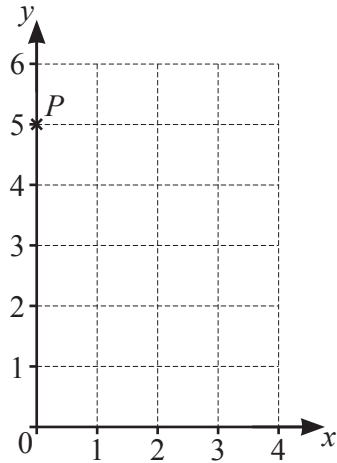
Volume, V , of cylinder of radius r , height h . $V = \pi r^2 h$

Volume, V , of cone of radius r , height h . $V = \frac{1}{3}\pi r^2 h$

Volume, V , of sphere of radius r . $V = \frac{4}{3}\pi r^3$

Answer **all** the questions.

1



Write down the coordinates of point *P*.

(..... ,) [1]

2 Change 5 litres into millilitres.

..... ml [1]

3 Write down the number of lines of symmetry for a rectangle.

..... [1]

4 Write down a prime number less than 10.

..... [1]

5 Complete the bicycle repair bill.

Item	Item cost (\$)	Number of items	Total cost (\$)
Tyre	5.25	2	
Brake pads		2	36
		Total cost (\$)	

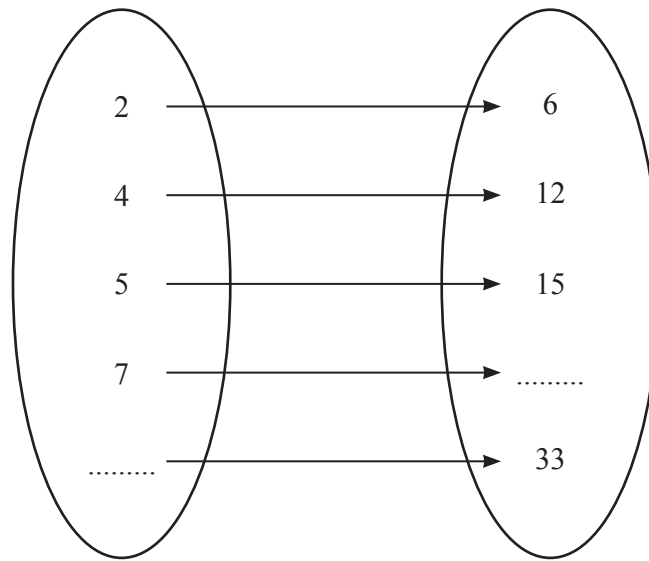
[2]

- 6 A film starts at 18 35 and finishes at 20 50.

Work out how long the film lasts.
Give your answer in hours and minutes.

..... h min [2]

- 7 Complete the mapping diagram.



[2]

- 8 These are the ages in years of 12 cats.

7 3 6 3 10 2 5 6 9 8 3 2

- (a) Find the median.

.....years [2]

- (b) Find the mode.

.....years [1]

9 $P = x^2 - 2x$

Find P when $x = -3$.

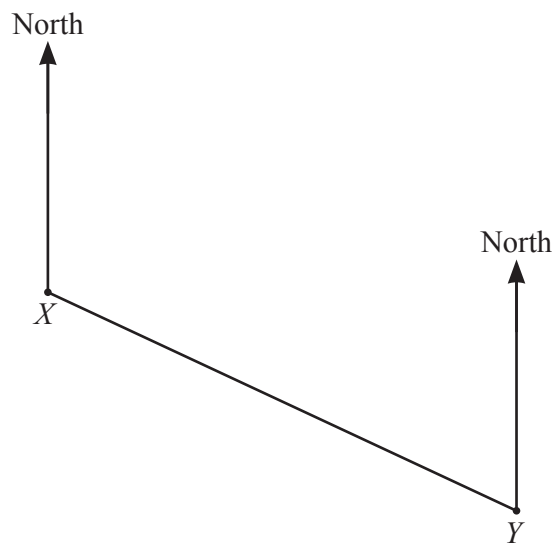
$P =$ [2]

10 A bag contains 12 blue pencils and 48 red pencils.

Work out the percentage of pencils in the bag that are blue.

..... % [2]

11



Measure the bearing of Y from X .

..... [1]

12 Write down all the integer values of x that satisfy this inequality.

$$-3 < x \leq 3$$

..... [2]

13 Work out.

$$\frac{4}{5} - \frac{3}{8}$$

..... [2]

14 A map has a scale of 1 : 4000.
On the map, the distance between two houses is 7 cm.

Work out the actual distance between the houses.
Give your answer in metres.

..... m [2]

15 The area of a circle is $49\pi \text{ m}^2$.

Work out the radius of the circle.

..... m [2]

16 Work out the size of one interior angle of a regular 12-sided polygon.

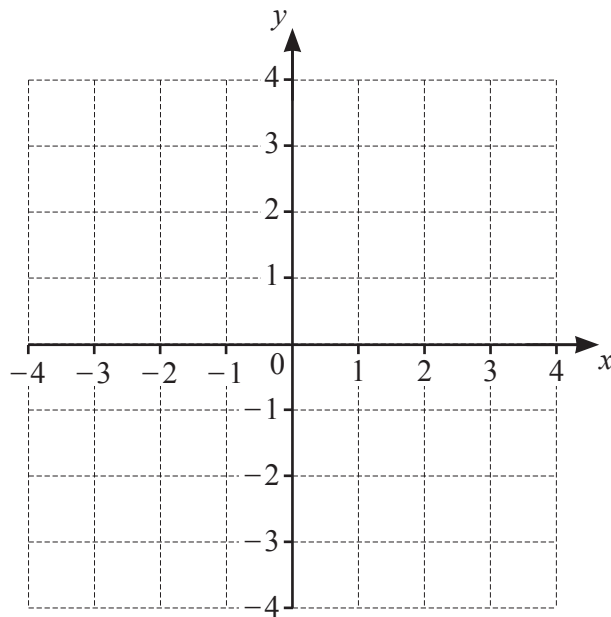
..... [3]

- 17 Sammy cycles 12 km in 45 minutes.

Find his average speed in km/h.

..... km/h [2]

18

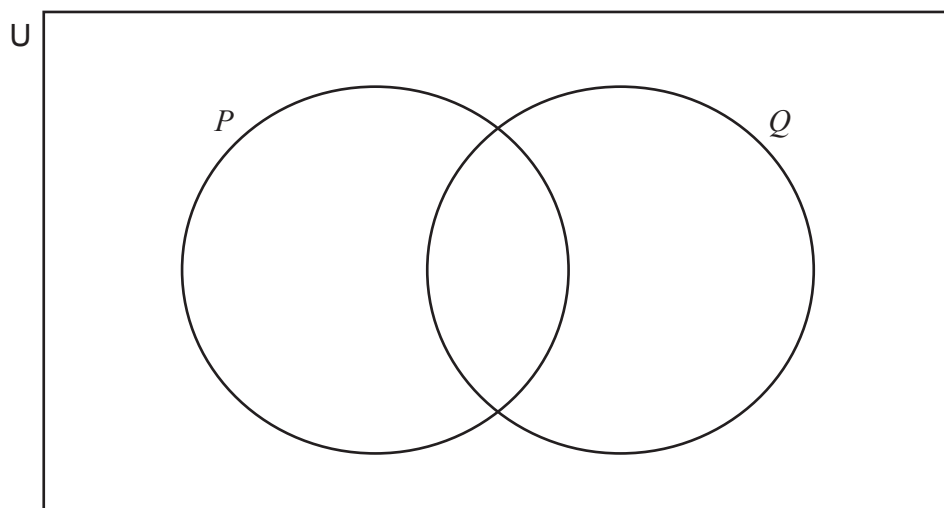


On the grid, draw the line $y = x + 2$.

[2]

- 19 $U = \{a, b, c, d, e, h, i, m, r, s, t, v, y\}$
 $P = \{c, h, e, m, i, s, t, r, y\}$
 $Q = \{m, a, t, h, s\}$

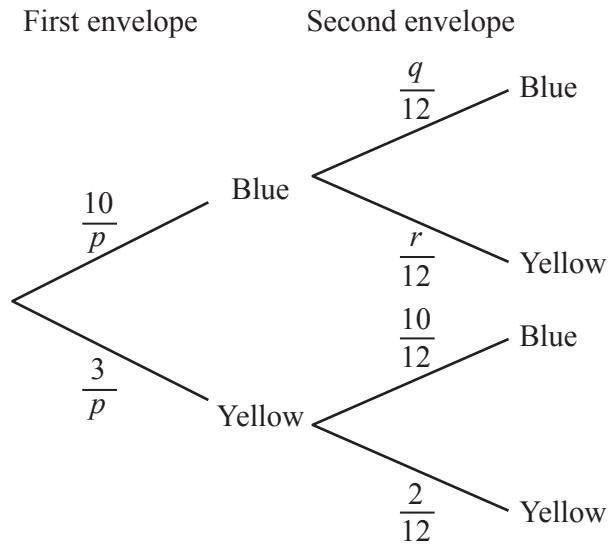
Complete the Venn diagram by writing each element in the correct region.



[2]

Questions 20 and 21 are printed on the next page.

- 20 A sack contains 10 blue envelopes and 3 yellow envelopes.
Two envelopes are chosen from the sack at random.



Write down the values of p , q and r .

$p =$

$q =$

$r =$ [2]

- 21 Solve the simultaneous equations.

$$\begin{aligned} 5x + y &= 5 \\ x + 2y &= -17 \end{aligned}$$

$x =$

$y =$ [3]

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 the 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.

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

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