



Mathematics

Stage 6

Paper 1

2025

Cambridge Primary Progression Test

Name

Class

Date

45 minutes

Additional materials: Compasses
Protractor
Tracing paper (optional)

INSTRUCTIONS

- Answer **all** questions.
- Write your answer to each question in the space provided.
- You should show all your working on the question paper.
- You are **not** allowed to use a calculator.

INFORMATION

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

1 Work out.

$$2.8 \times 4$$

..... [1]

2 Write 2.25 hours in hours and minutes.

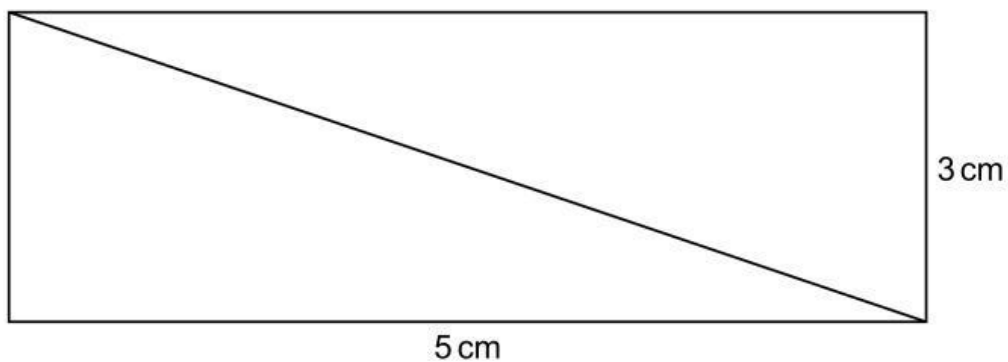
..... hours minutes [1]

3 Work out.

$$64.23 \div 3$$

..... [1]

4 Here is a rectangle made from two triangles.



Work out the area of **one** of the triangles.

..... cm² [1]

- 5 Oliver finds the mass of four apples.
Here are his results in grams.

50

80

70

80

Find the mean mass of the apples.

..... grams [1]

- 6 Draw a ring around the number which equals 5 when rounded to the nearest whole number.

5.55

5.19

4.49

4.34

[1]

- 7 Draw a line to match each fraction on the left to its simplest form.

$$\frac{5}{20}$$

$$\frac{2}{10}$$

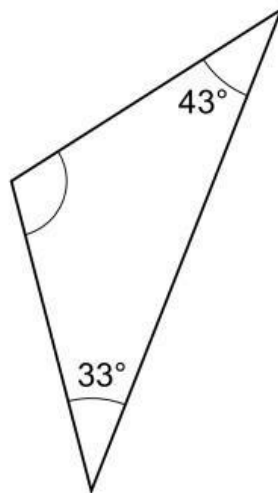
$$\frac{1}{4}$$

$$\frac{1}{2}$$

$$\frac{1}{5}$$

[1]

- 8 Here is a triangle.



Not drawn to scale

The size of two of the angles are marked.

Work out the size of the third angle.

..... ° [1]

- 9 The temperature in London is 5°C .
The temperature in Moscow is -7°C .

(a) Write a number in the box to make this sentence correct.

London is $^{\circ}\text{C}$ warmer than Moscow.

[1]

(b) The temperature in London falls by 8°C .

Write the new temperature in London.

..... $^{\circ}\text{C}$ [1]

- 10 Mike starts to write a sequence of numbers.

He starts at 1.7

He counts back in steps of 0.4

Here are the first 3 numbers in his sequence.

1.7

1.3

0.9

Complete the boxes to show the next 2 numbers in the sequence.

[1]

- 11 Draw a ring around **each** calculation where the answer is a square number.

5×2

10×10

3×3

3×7

1×2

[1]

- 12 Write a number in each box to complete the sentences.

All isosceles triangles have equal sides.

All scalene triangles have different angles.

All equilateral triangles have lines of symmetry.

[1]

- 13 Draw a ring around **each** prime number.

21

23

25

27

29

31

[1]

14 Work out.

$$5 + 5 \times 47 \times 2$$

..... [1]

15 Carlos bakes some cakes.

For every 100 g of flour he uses, he needs 2 eggs.
He uses 1 kg of flour.

Write the number of eggs he needs.

..... [1]

16 Write a number in each box to make the statement correct.

$$1.5 + \boxed{} + \boxed{} = 6.6$$

[1]

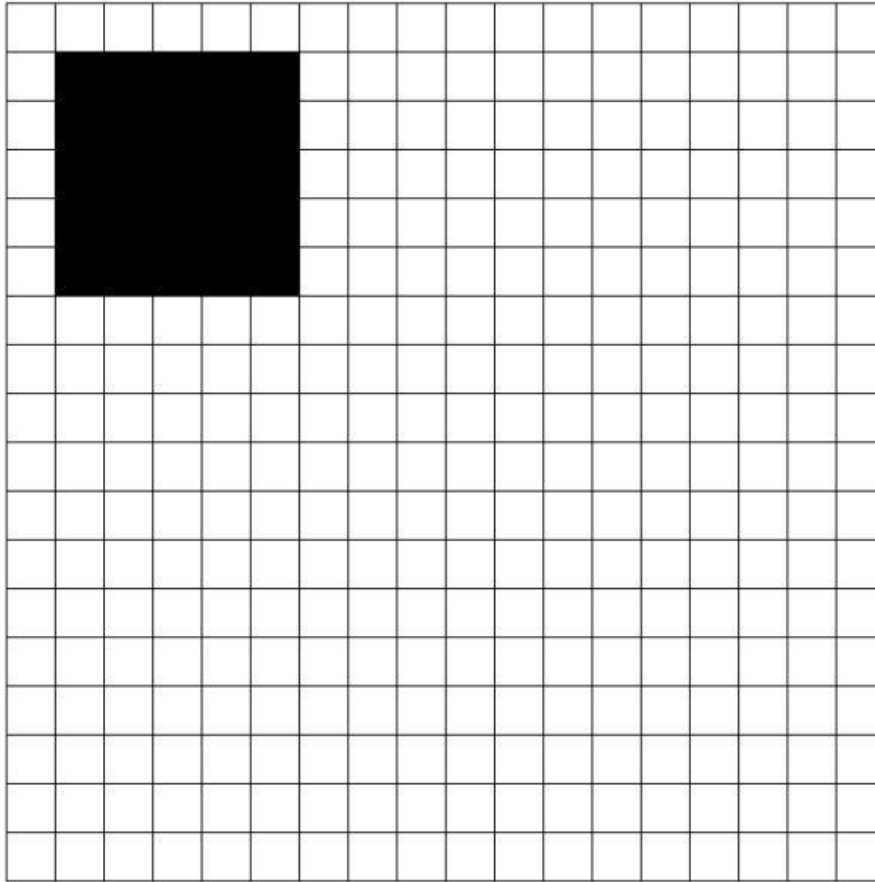
17 Hassan has a bag of sweets.

He has 5 green sweets and all the other sweets are yellow.
He picks one sweet from the bag at random.
There is a 1 out of 4 chance of Hassan picking a green sweet.

Write the **total** number of sweets in the bag.

..... [1]

18 Chen draws a quadrilateral on a grid of squares.



Yuri draws another quadrilateral using whole squares.

The perimeter of Yuri's quadrilateral is the same as the perimeter of Chen's quadrilateral.

The area of Yuri's quadrilateral is as **small as possible**.

Draw Yuri's quadrilateral on the grid.

[2]

19 Write a number in each box to complete the calculations.

(a) $2468 \times 35 =$

[1]

(b) $455 \div 13 =$

[1]

- 20** Gabriella counts the number of students in the class for each of her different subjects at school.
Here are her results.

Subject	Number of students in the class	Subject	Number of students in the class
Physics	21	Geography	24
Maths	23	History	24
English	22	Chemistry	23
Biology	22	Music	18
Spanish	18	Drama	24

- (a)** Complete the tally chart to show her results.

Number of students in the class	Tally
17 – 18	
19 – 20	
21 – 22	
23 – 24	

[1]

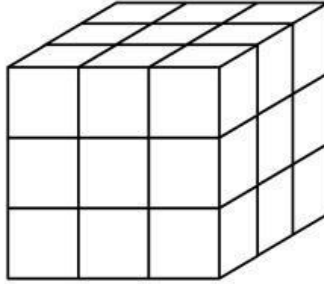
- (b)** Angelique groups the same data using three equal intervals.
She starts to write the intervals in a table.

Number of students in the class
17 –
..... –
..... – 25

Complete the table.

[1]

- 21 Safia uses 27 small white unit cubes to build a larger solid cube.



Safia paints all the faces of the larger cube red.

- (a) Write the number of small unit cubes that have **three** faces painted red.

..... [1]

- (b) Write the number of small unit cubes that have **no** faces painted red.

..... [1]

- 22 Here are three numbers.

32

40

16

Write the **largest** number that is a factor of all these numbers.

..... [1]

23 Here are some numbers.

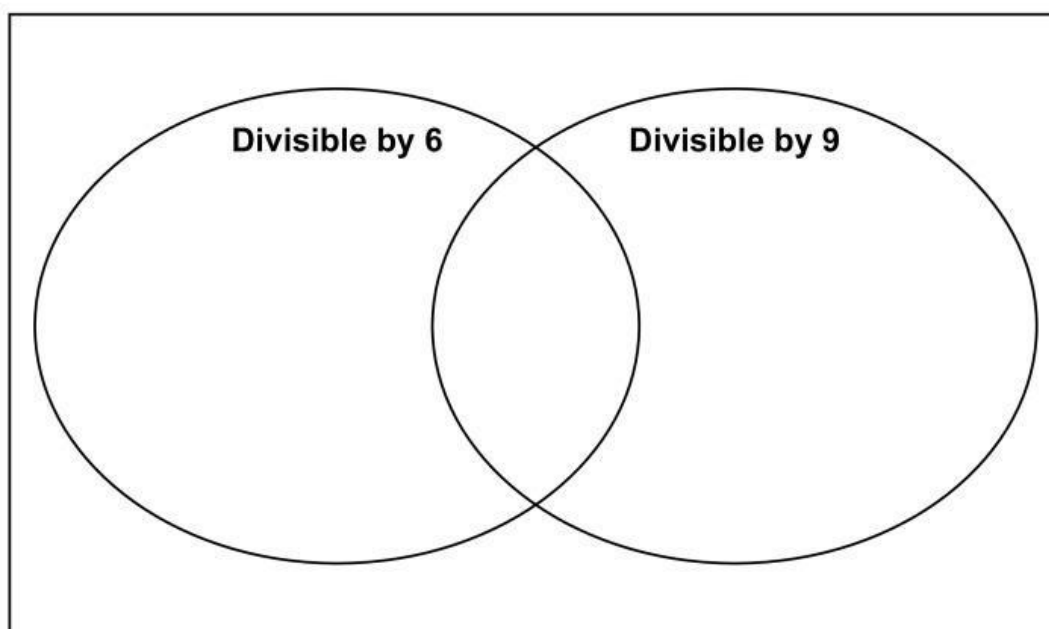
333

543

738

354

Write each number in the correct place on the Venn diagram.



[2]

- 24 (a)** Pierre has some red balls and some white balls in a bag.

R represents the number of red balls.

W represents the number of white balls.

Write the value of W when $R + W = 16$ **and** $R = 5$

..... [1]

- (b)** Carlos has some green balls, some blue balls and some yellow balls in a different bag.

G represents the number of green balls.

B represents the number of blue balls.

Y represents the number of yellow balls.

Write the number of green balls in the bag when $B = Y$ **and** $G = B + Y$
and $B = 5$

..... [1]

- 25** The price of a car in December is \$1000

The price of the car in January is 10% less than the price in December.

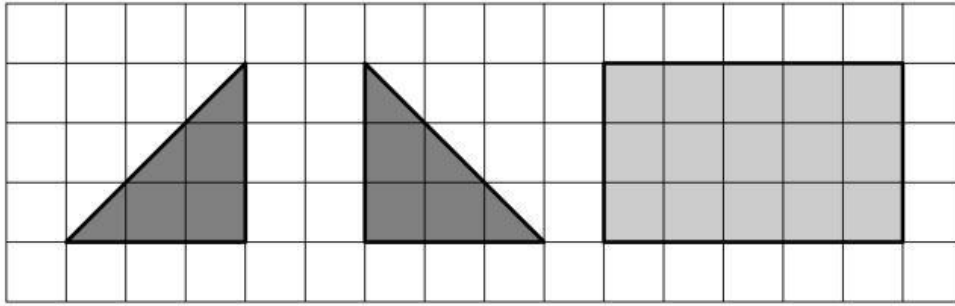
The price of the car in February is 20% more than the price in January.

Work out the price of the car in February.

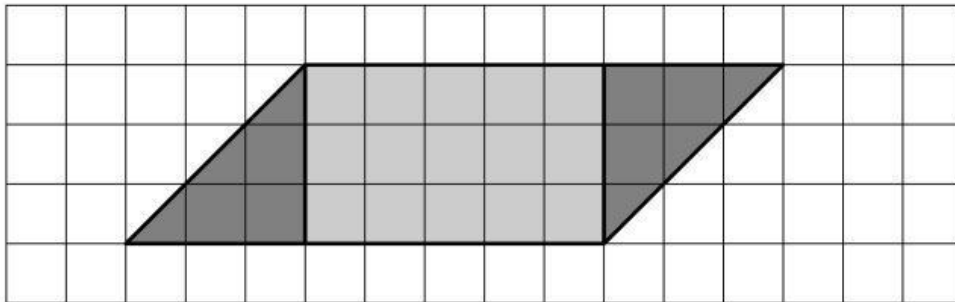
Show your working.

\$ [2]

26 Here are three shapes drawn on a grid of squares.

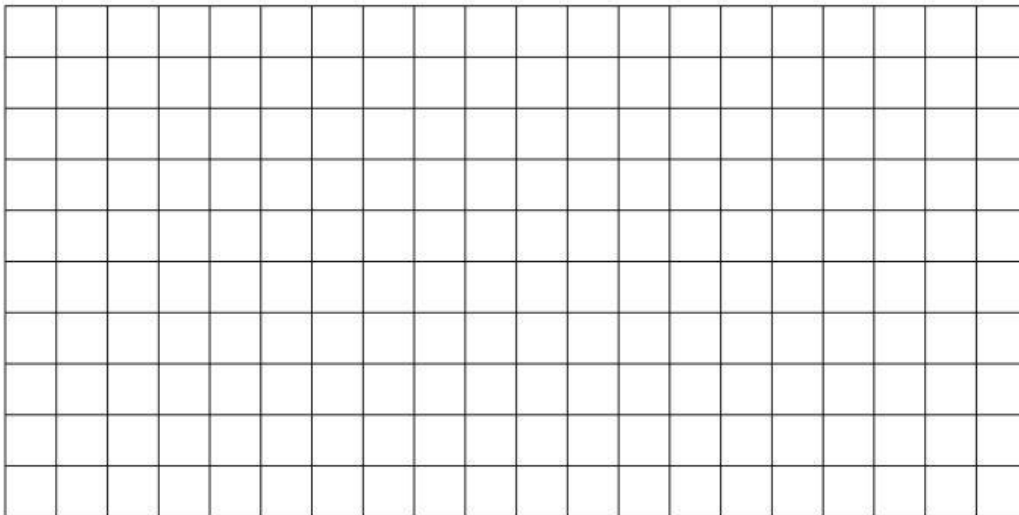


These shapes can be combined to make a parallelogram.



There are **two** other **different** quadrilaterals that could be created using the same three shapes.

(a) Draw **one** of these shapes on the grid.

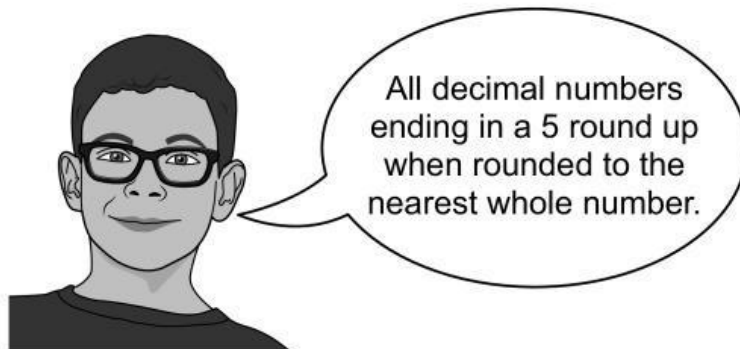


[1]

(b) Write the name of the **other** possible shape.

[1]

27 Rajiv says,



Give an example to show that Rajiv is wrong.

..... [1]

28 Here are some quantities.

$$\frac{5}{8}$$

$$0.4$$

$$80\%$$

$$\frac{5}{6}$$

Write a quantity in each box to make these statements correct.
Use each quantity **once**.

=

$$\frac{4}{5}$$

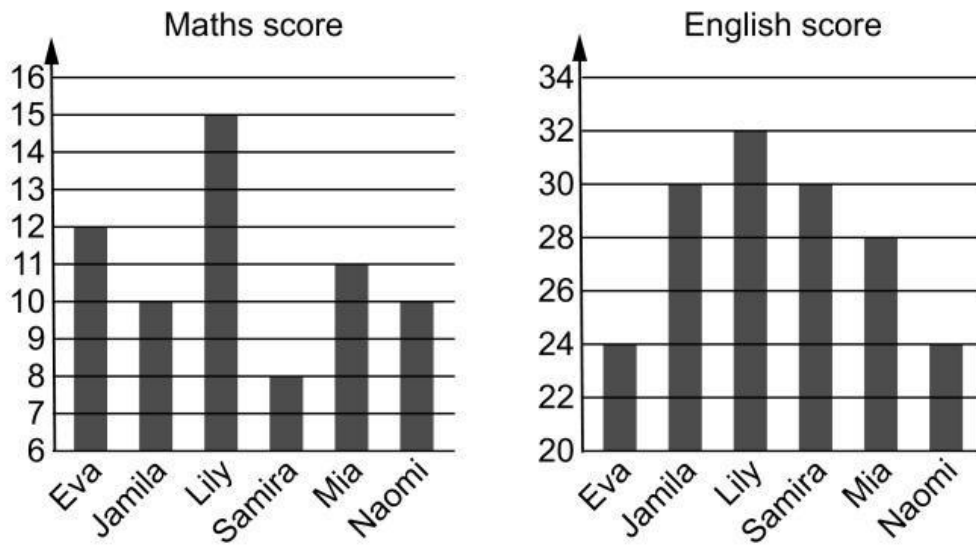
$$\frac{5}{9}$$

>

<

[2]

- 29 Six children take tests in maths and English.
The results for each child are shown in bar charts.



Eva says,

'I scored twice as many marks in English than I did in maths.
This means I **must** be better at English than I am at maths.'

Tick (✓) the box to show whether Eva is correct.

Yes

☐

No

☐

Explain how you know.

.....

.....

.....

..... [1]