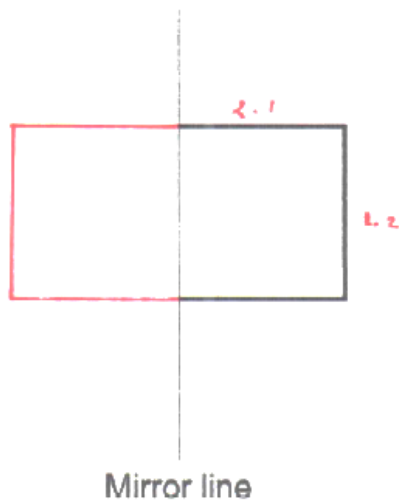


2D and 3D Shapes– 2024 Checkpoint Primary Math**1. 2024/Paper 1_stage 3/No.4**

Sketch the reflection of the shape in the mirror line.

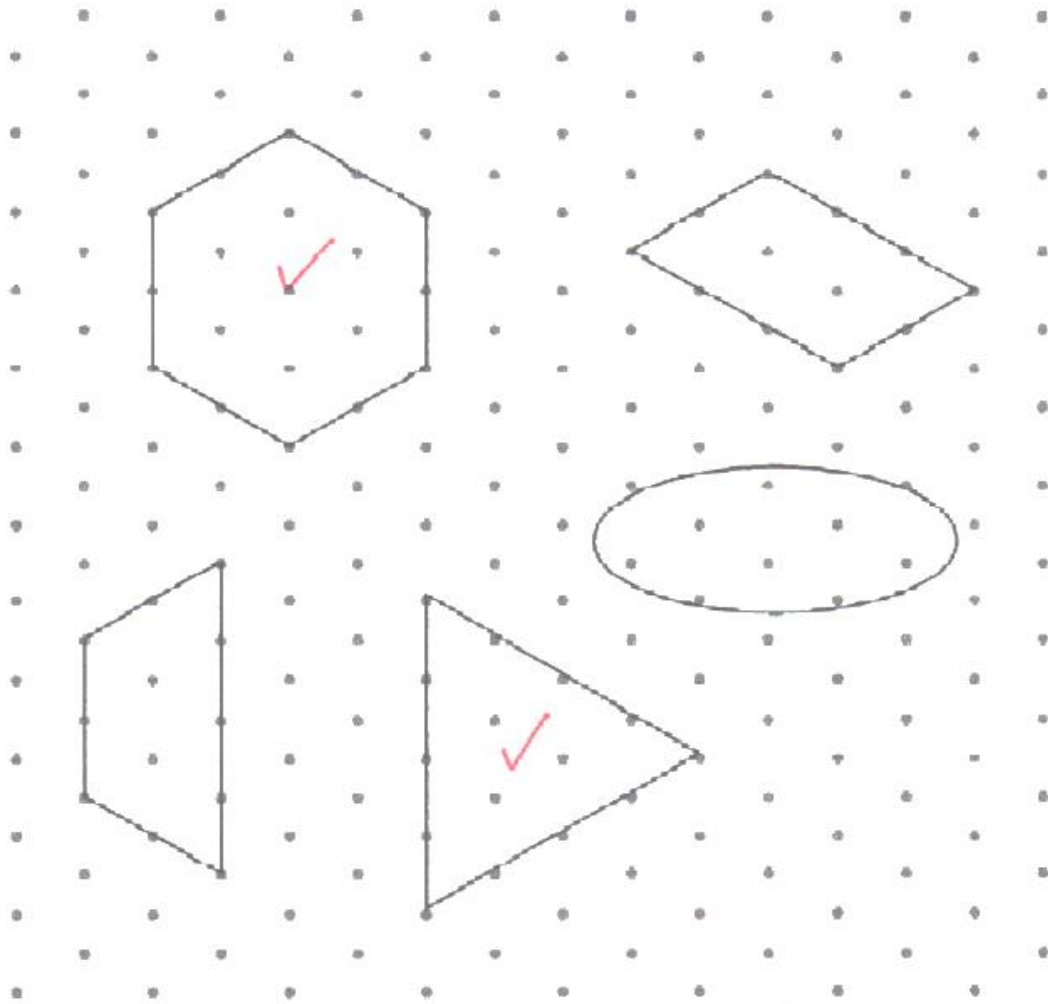


Distance from the
image to the
mirror line = distance
from the
object to
the mirror line.

[1]

2. 2024/Paper 1_stage 3/No.19

Here are some 2D shapes drawn on dotted paper.



Tick (✓) all the shapes that are regular polygons. (All sides are equal and interior angles are equal) [1]

3. 2024/Paper 1_stage 3/No.21

Here are the names of some 3D shapes.

cylinder

cube

cuboid

sphere

pyramid

Use three of the names to complete the sentences.

Every Cylinder has at least one circular face.

Every Pyramid has at least one triangular face.

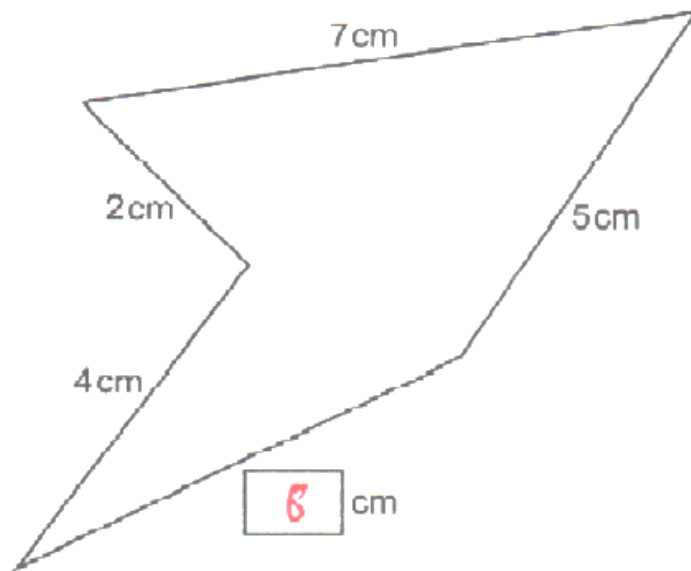
Every cuboid has at least one rectangular face.

[2]

4. 2024/Paper 1_stage 3/No.23

(a) The diagram shows a 2D shape.

The lengths of some of the sides are marked.



Not drawn to scale

Mia says,

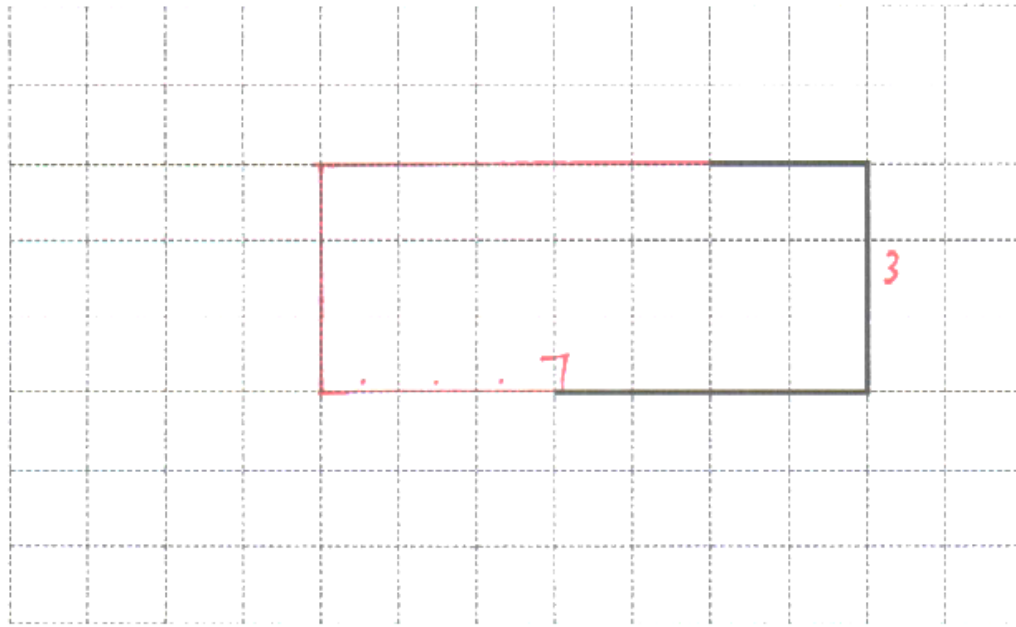
Distance all round.'The perimeter of the shape is 24 cm.'

Write a number in the box on the diagram to make Mia's statement correct.

$$\begin{aligned}
 x &= 24 - (7 + 5 + 2 + 4) \\
 &= 24 - 18 = 6 \text{ cm}
 \end{aligned}$$

[1]

(b) Here is part of a rectangle drawn on a grid of centimetre squares.



Complete the rectangle so that it has a perimeter of 20 cm.

[1]

$$\text{Perimeter} = 2L + 2W$$

$$2L + 2 \times 3 = 20$$

$$2L + 6 = 20$$

$$2L = 20 - 6$$

$$\frac{2L}{2} = \frac{14}{2}$$

$$\therefore L = 7$$

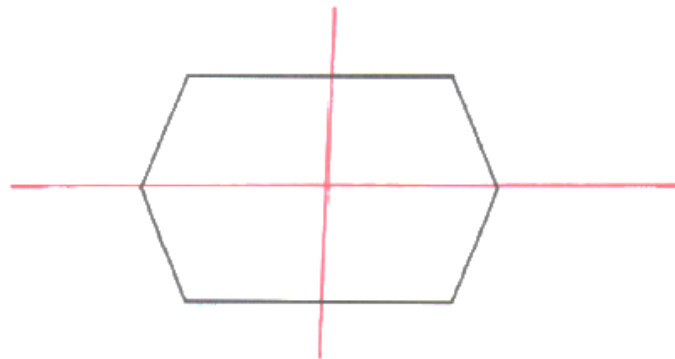
JCLES 2024

M/S3/01

[Turn over]

5. 2024/Paper 2_stage 3/No.3

Draw **all** the lines of symmetry on each picture.
Use a ruler.



[2]

A line of symmetry divides a picture into two equal parts.

6. 2024/Paper 2_stage 3/No.4

Tick (✓) the **two** 2D shapes that have at least one angle inside that is greater than a right angle.



all angles are acute



All angles are right angles.



[1]

7. 2024/Paper 2_stage 3/No.12

Draw a line to match each item to the best estimate of its length.



4cm

20cm

50m

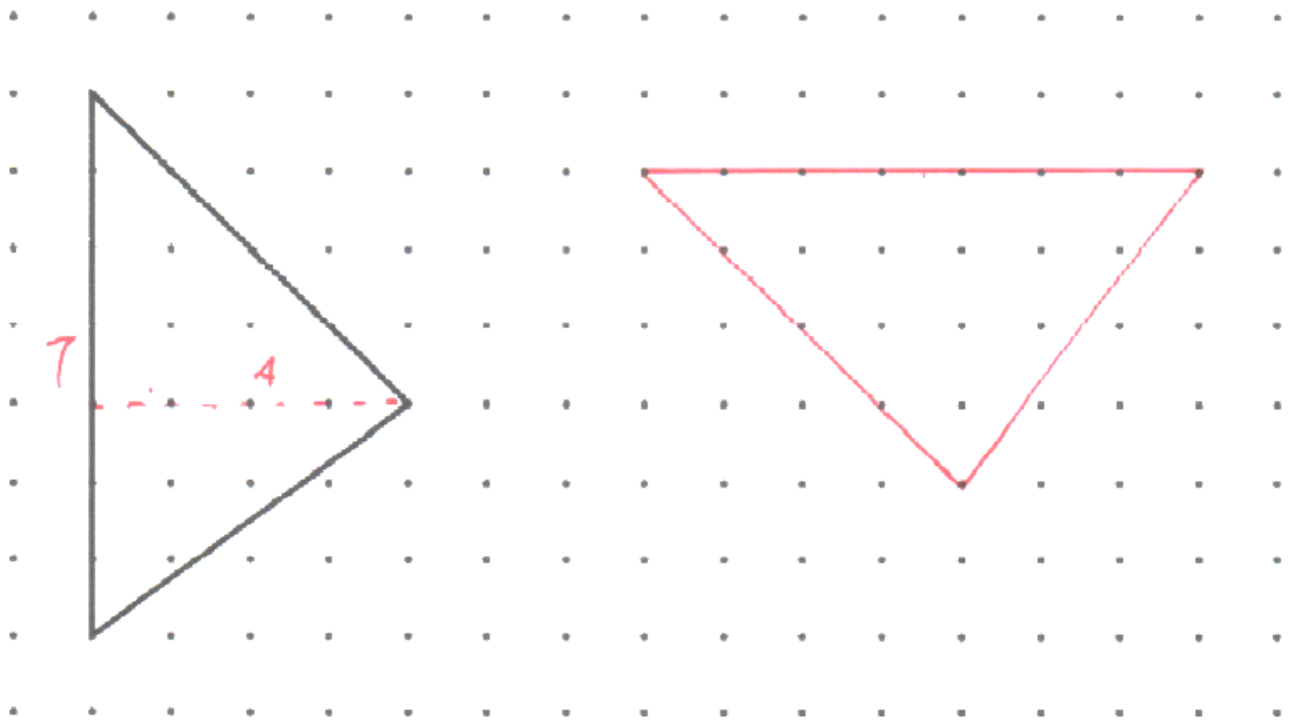
400cm

Not drawn to scale

[1]

8. 2024/Paper 2_stage 3/No.20

Here is a triangle drawn on a dotty grid.



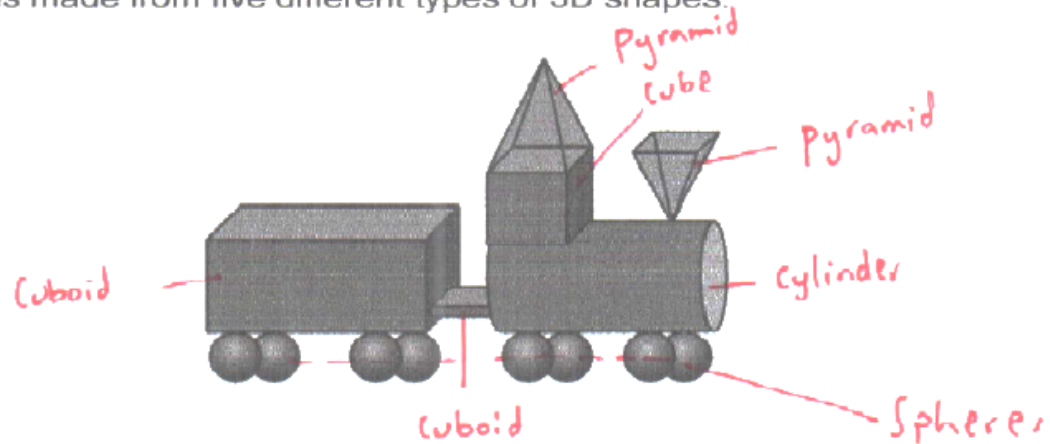
Draw an identical triangle in a **different** orientation on the dotty grid.

[1]

9. 2024/Paper 2_stage 3/No.21

Here is a picture of a toy train.

The train is made from five different types of 3D shapes.



Complete the table to show the names of the 3D shapes and the number of each shape in the picture.

One has been done for you.

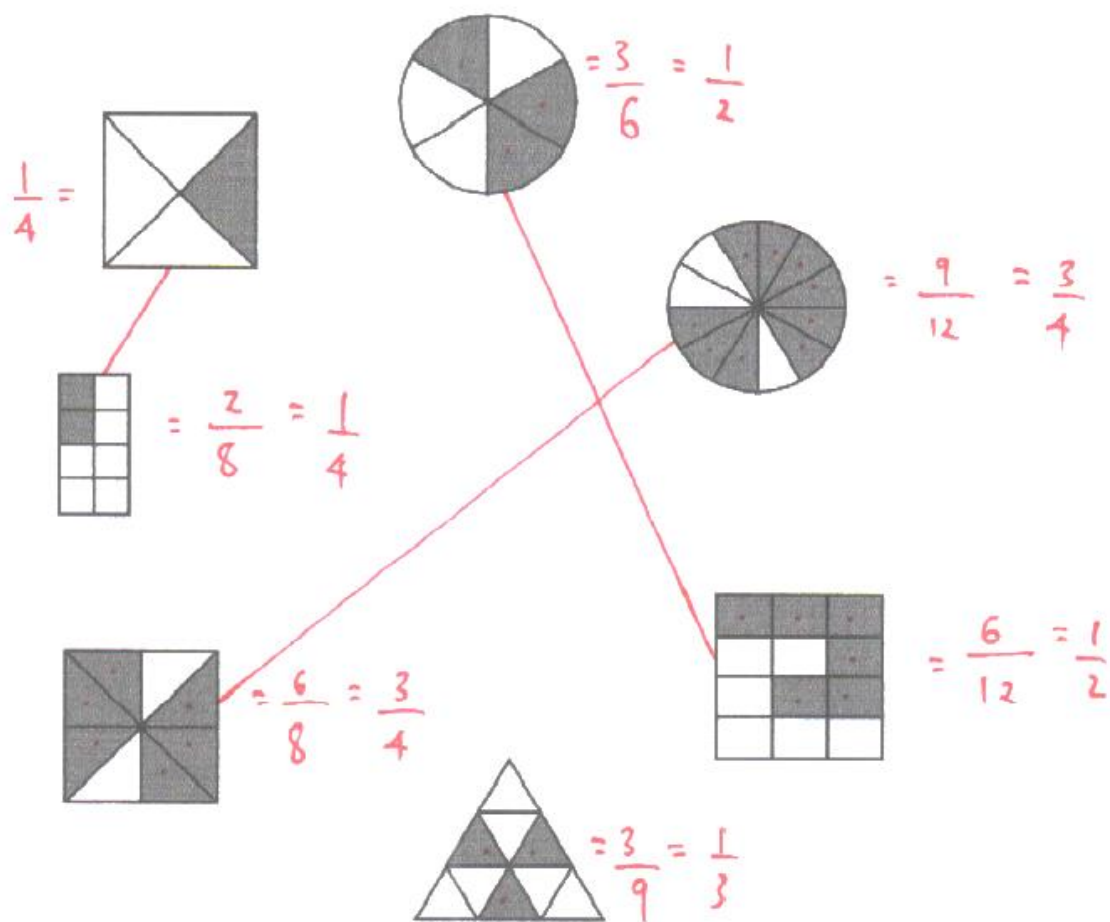
Name of 3D shape	Number
Cube	1
Cuboid	2
Sphere	8
Pyramid	2
Cylinder	1

[2]

10. 2024/Paper 2_stage 3/No.23

Here are seven shapes.

Each shape is divided into equal parts.



Draw lines to join the shapes that have the same fraction shaded.

[2]