

Enlargements

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **21**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

- 1** A rectangle measures 3 cm by 2 cm.
It is enlarged to give a rectangle 12 cm by 8 cm.
Write down the scale factor of the enlargement.

[1 mark]

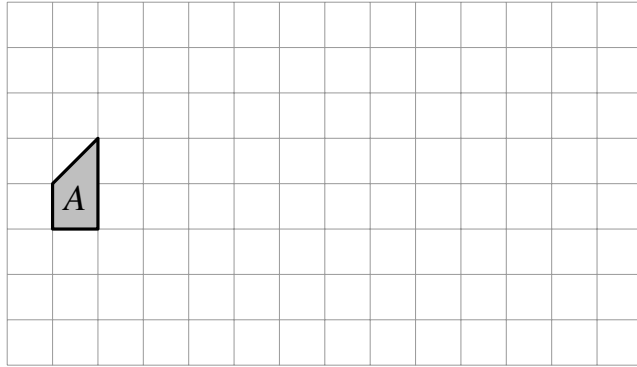
Answer _____

- 2** A shape is enlarged by scale factor $\frac{1}{3}$
Tick the true statement.

[1 mark]

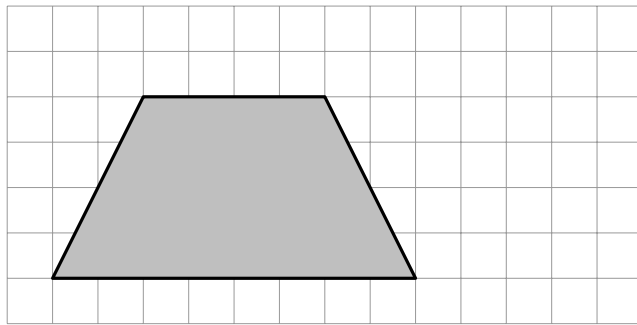
- ☐ The image is 3 times bigger
- ☐ The image is smaller
- ☐ The image is the same size
- ☐ The image is 3 times as long and upside down

- 3 On the grid, enlarge shape *A* by scale factor 2



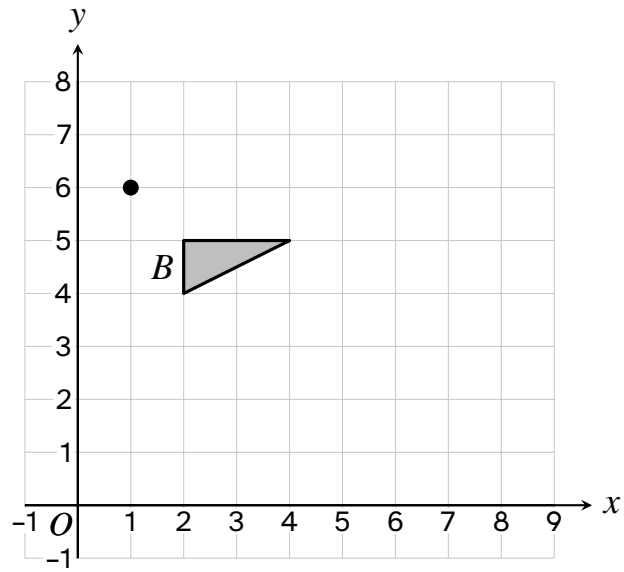
[2 marks]

- 4 On the grid, enlarge the shaded trapezium by scale factor $\frac{1}{2}$



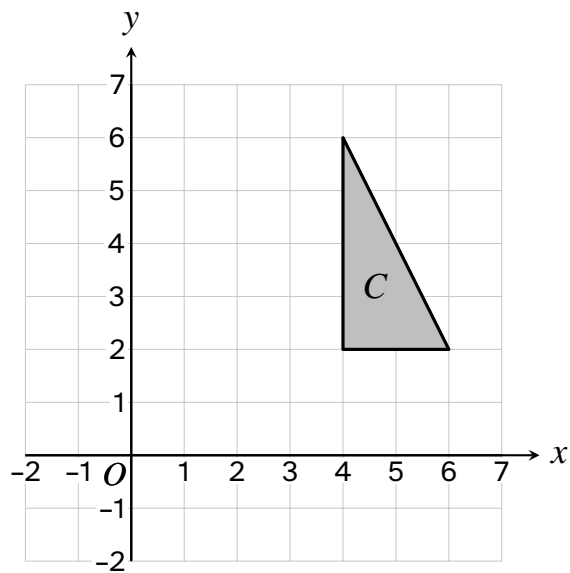
[2 marks]

- 5 Enlarge triangle B by scale factor 2, centre $(1, 6)$



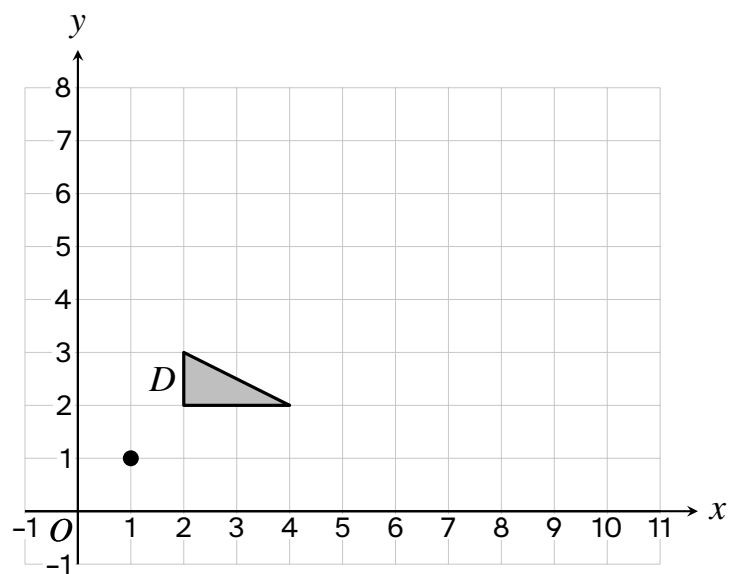
[2 marks]

- 6 Enlarge triangle C by scale factor $\frac{1}{2}$, centre $(0, 0)$



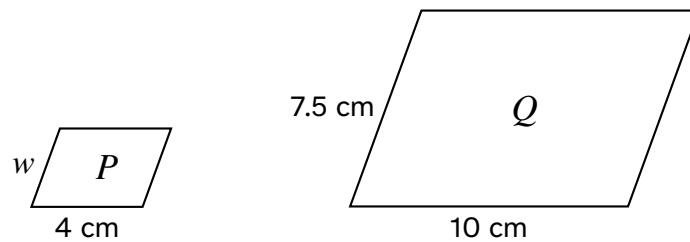
[2 marks]

- 7 Enlarge triangle D by scale factor 3, centre $(1,1)$



[2 marks]

- 8 Parallelogram Q is an enlargement of parallelogram P .



- (a) Work out the scale factor of the enlargement.

[1 mark]

Answer _____

- (b) Work out the value of w .

[1 mark]

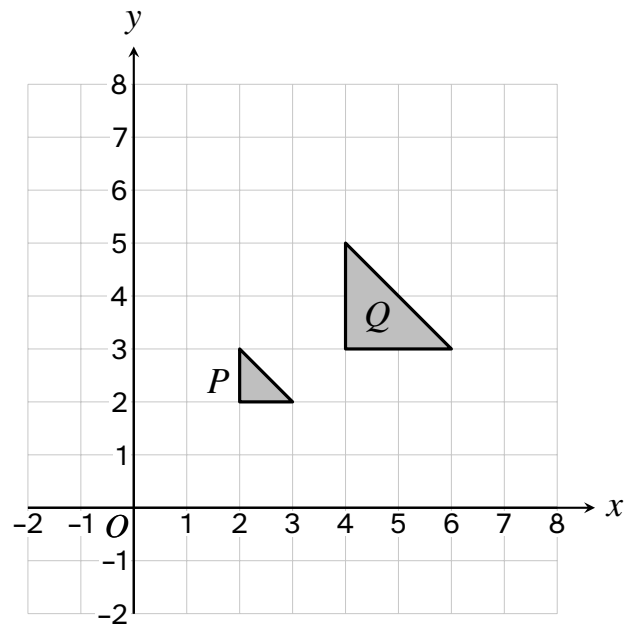
$w =$ _____ cm

- (c) Work out the perimeter of Q .

[1 mark]

Answer _____ cm

- 9 Describe fully the single transformation that maps triangle P onto triangle Q .



[3 marks]
