

Name:

Date:

Transformations: Enlargement

GCSE

Edexcel

Mathematics

Grade (9-1)

Mark

Score (%)

— 21

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Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

Information

- The marks for the questions are shown in brackets

1

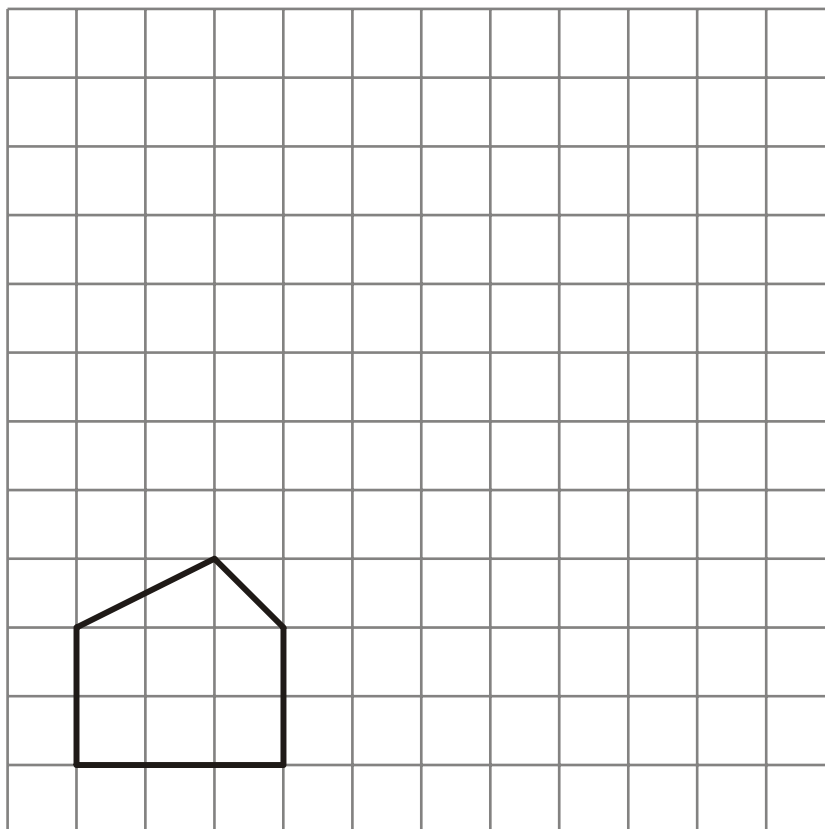


Triangle **P** has been drawn on a grid.

On the grid, draw an enlargement of the triangle **P** with scale factor 3

(Total for question 1 is 2 marks)

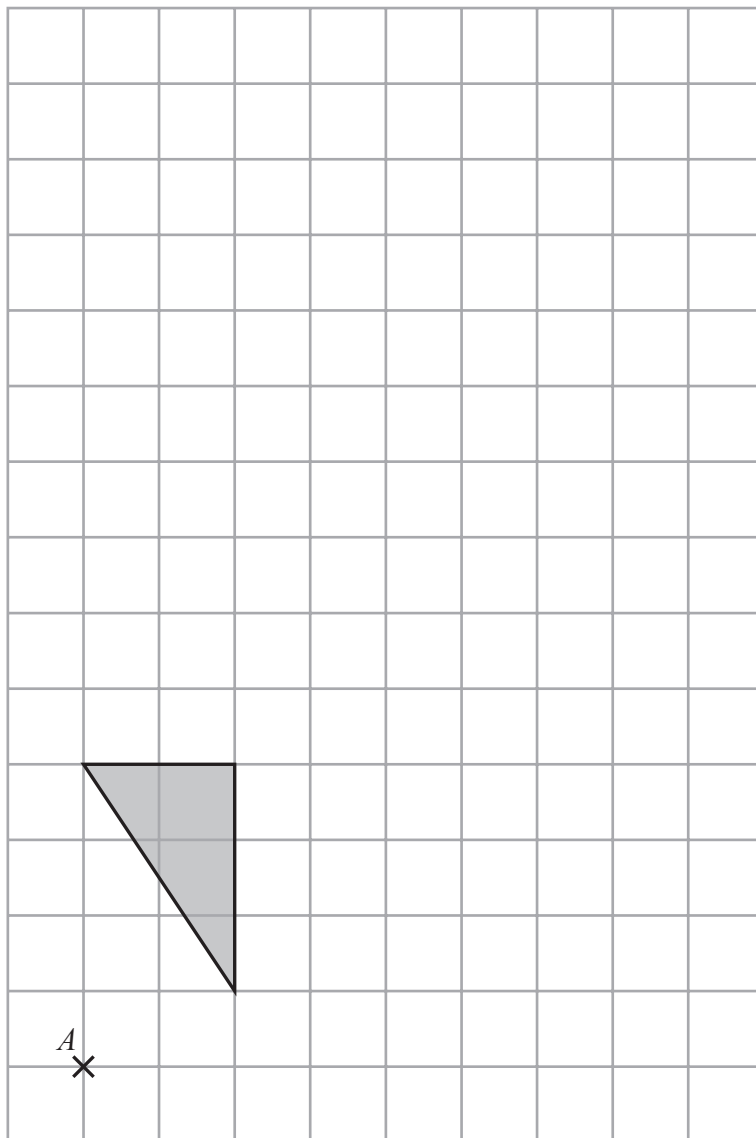
2



On the grid, enlarge the shape with a scale factor of 2

(Total for question 2 is 2 marks)

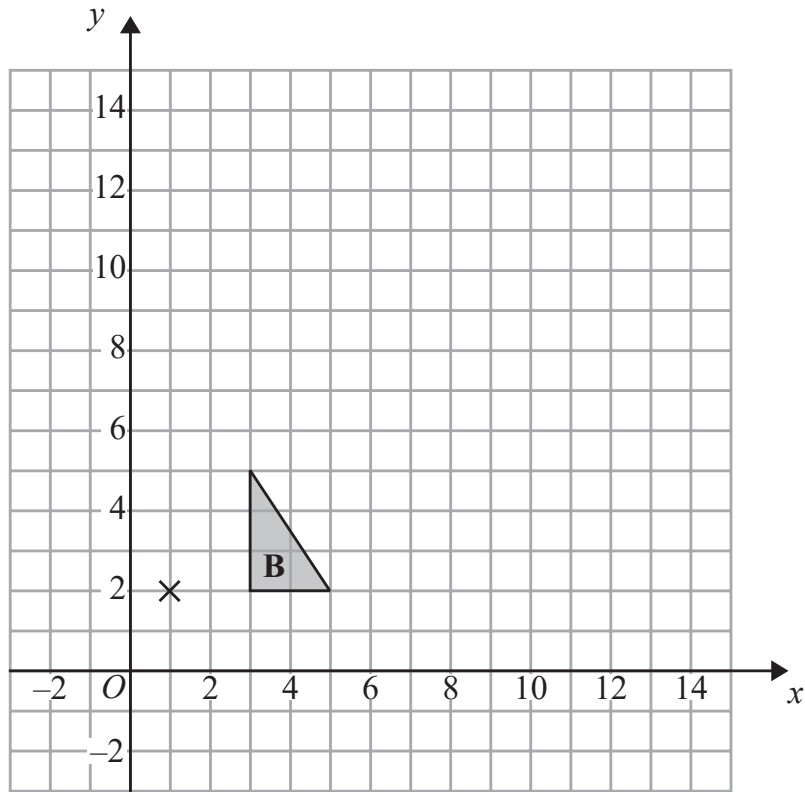
3 A shaded shape is shown on the grid.



On the grid, enlarge the shape by a scale factor of 2, centre *A*.

.....
(Total for question 6 is 2 marks)

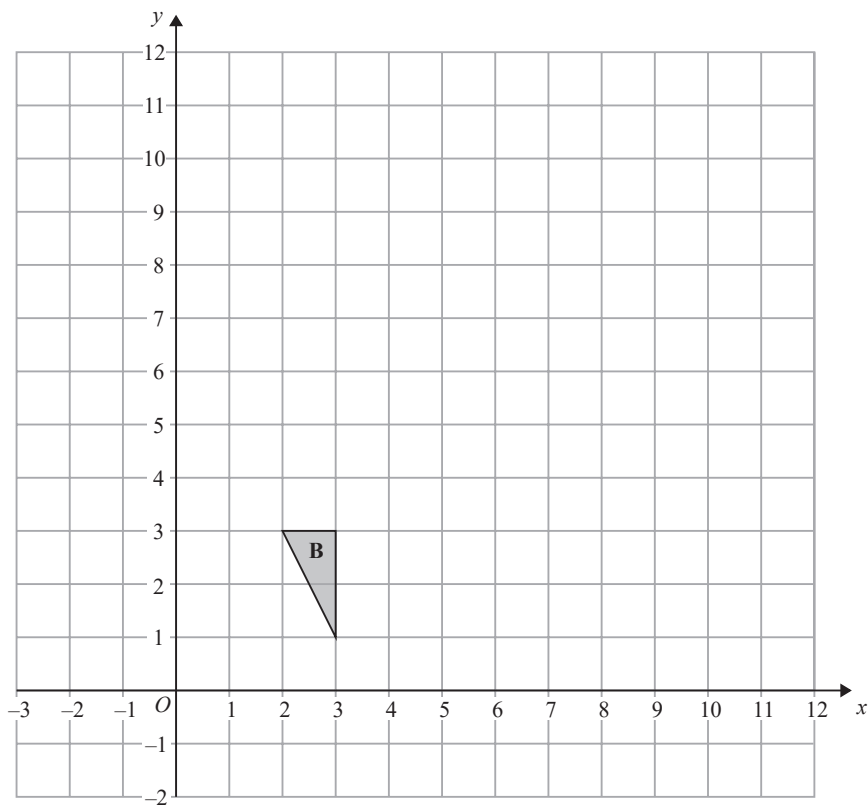
4



Enlarge triangle **B** by scale factor 3, centre (1, 2).

(Total for question 4 is 3 marks)

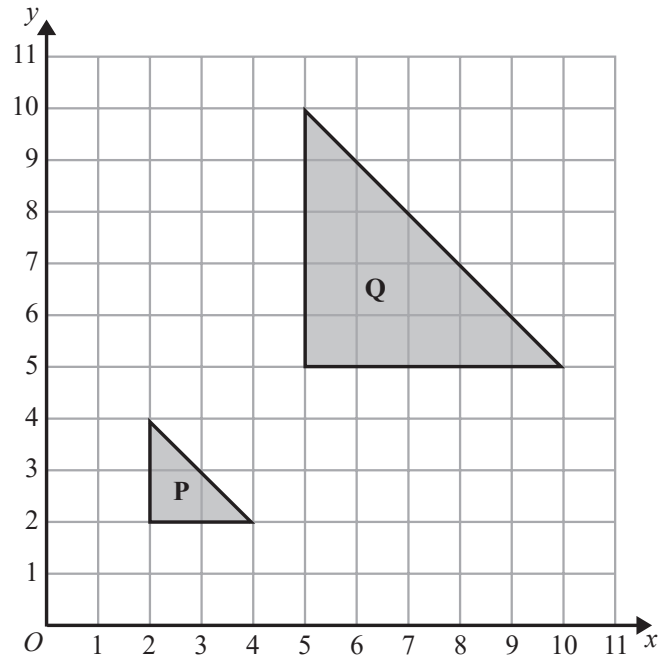
5



On the grid, enlarge triangle **B** by scale factor 3, centre (0, 0).

(Total for question 5 is 3 marks)

6



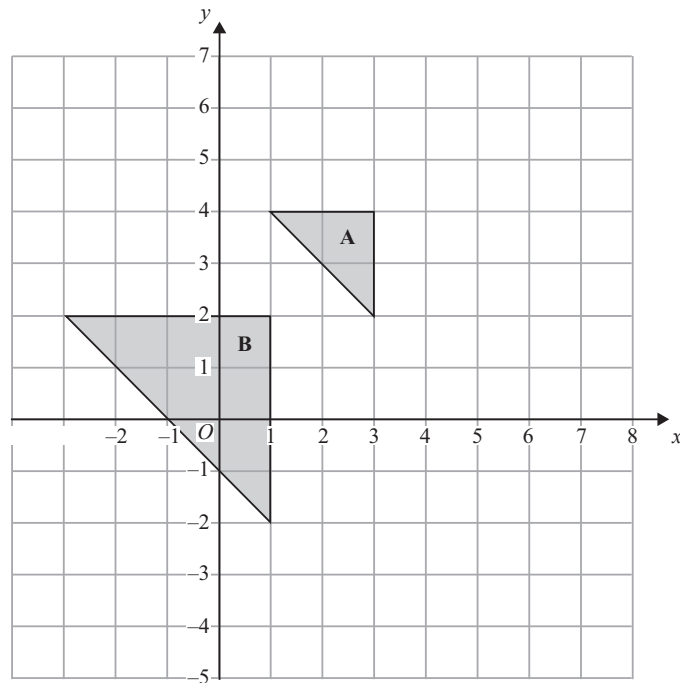
Describe fully the single transformation that maps shape **P** onto shape **Q**.

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(Total for question 6 is 3 marks)

7



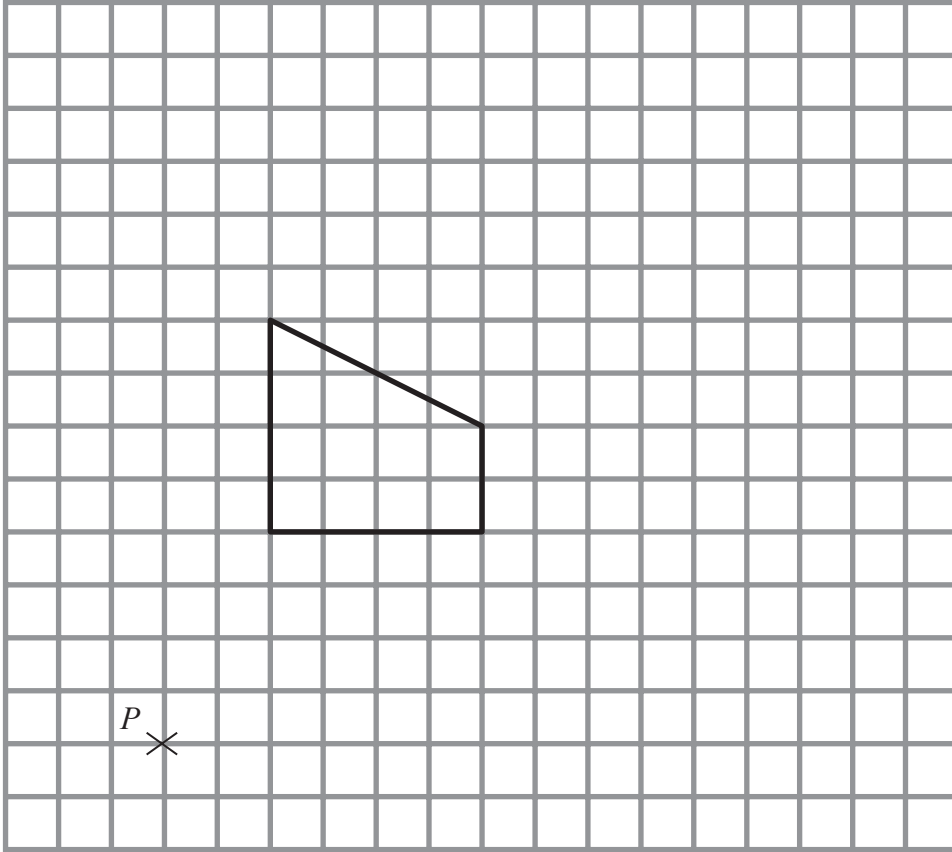
Describe fully the single transformation which maps triangle **A** onto triangle **B**.

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(Total for question 7 is 3 marks)

8



On the grid, enlarge the shape with a scale factor of $\frac{1}{2}$, centre P .

(Total for question 8 is 3 marks)

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