

# Transformations-Translations

## Question Paper

|             |                              |
|-------------|------------------------------|
| Level       | GCSE                         |
| Subject     | Maths                        |
| Exam Board  | Edexcel GCSE                 |
| Topic       | Transformations-Translations |
| Grade Level | Grade 3                      |
| Booklet     | Question Paper               |

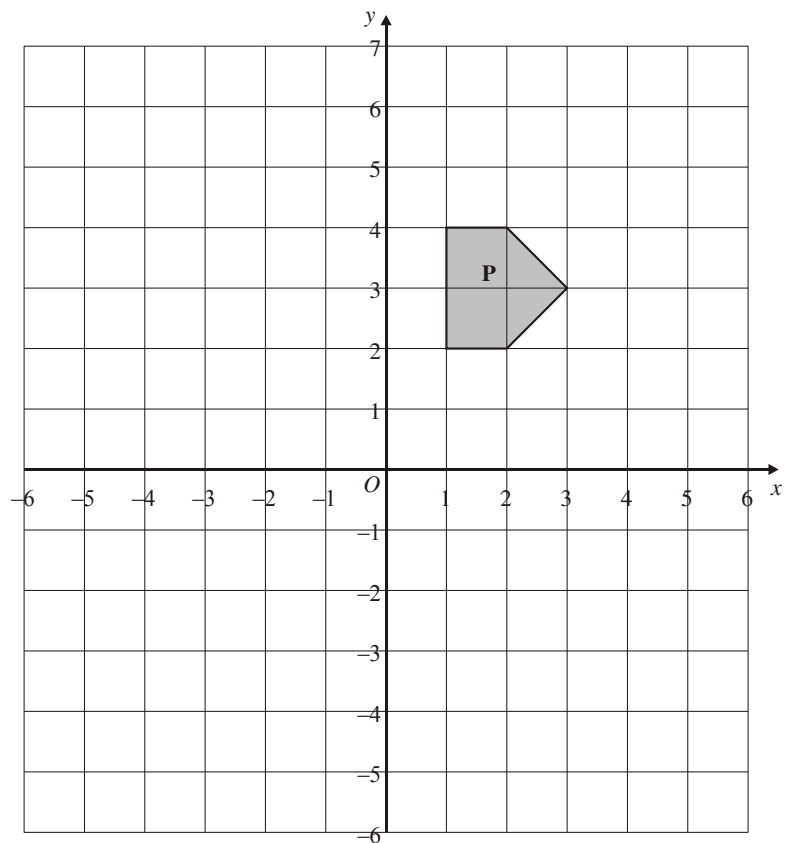
**Time Allowed:** 21 minutes

**Score:** /17

**Percentage:** /100

**Grade Boundaries:**

1.

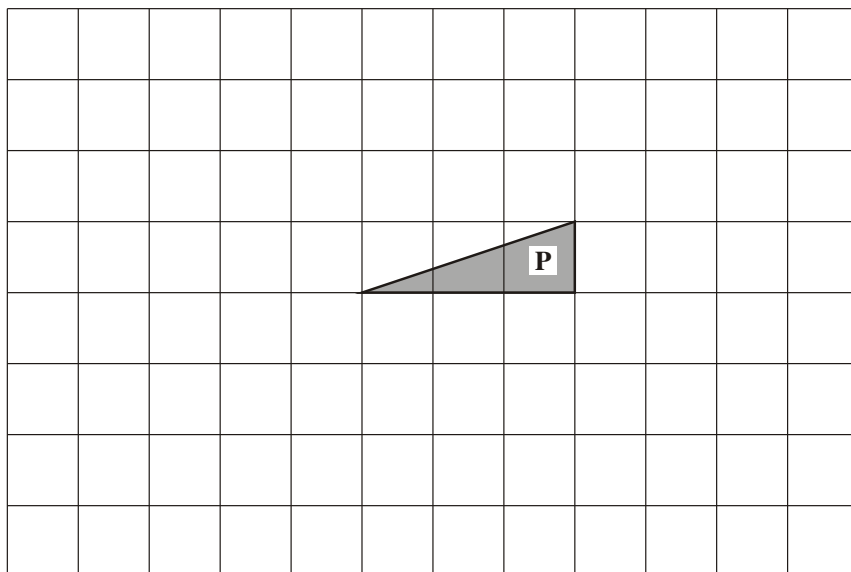


On the grid, translate the shaded shape **P** by 2 units to the right and 3 units up.

Label the new shape **R**.

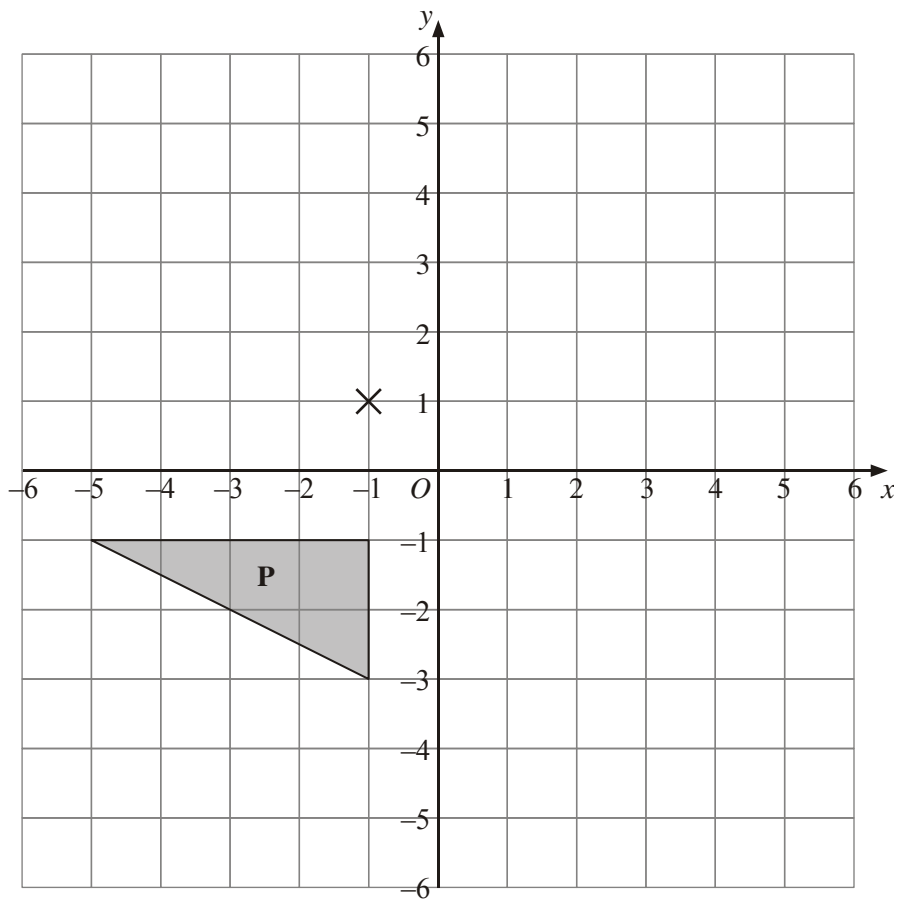
**(Total 2 marks)**

2. Translate shape **P** 3 squares to the left and 2 squares down.



**(Total 1 mark)**

3.

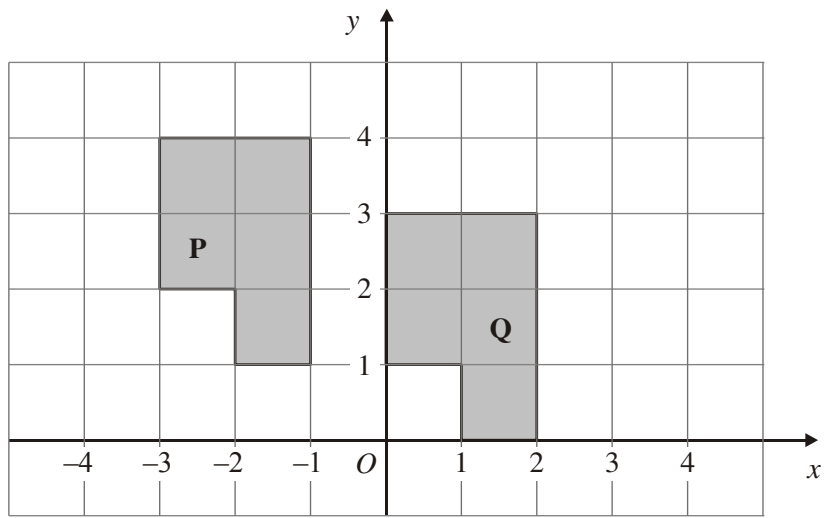


Translate triangle **P** by the vector  $\begin{pmatrix} 6 \\ -1 \end{pmatrix}$ .

Label the new triangle **B**.

(2)  
(Total 2 marks)

4.



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

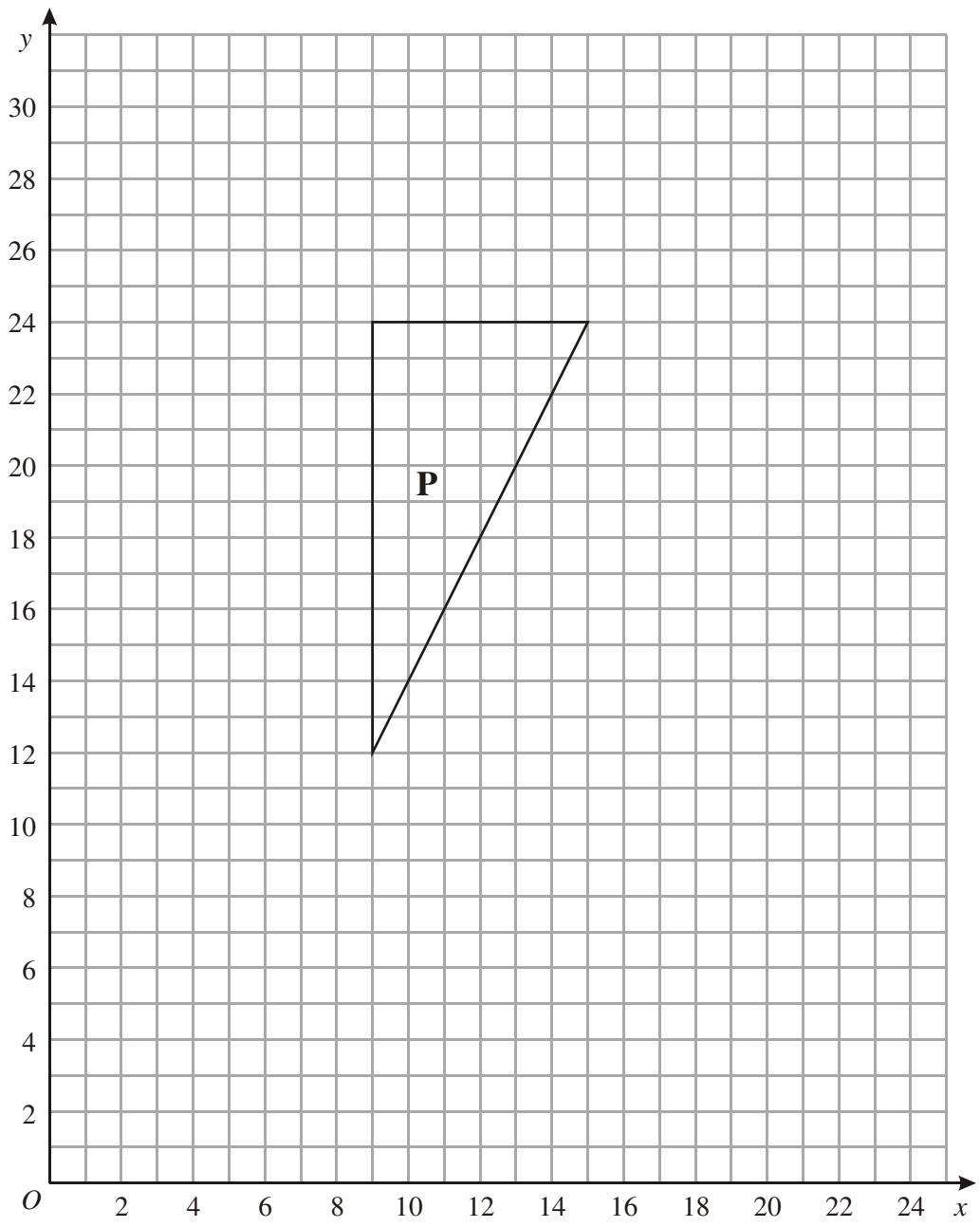
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.....

.....

(2)  
(Total 2 marks)

5.

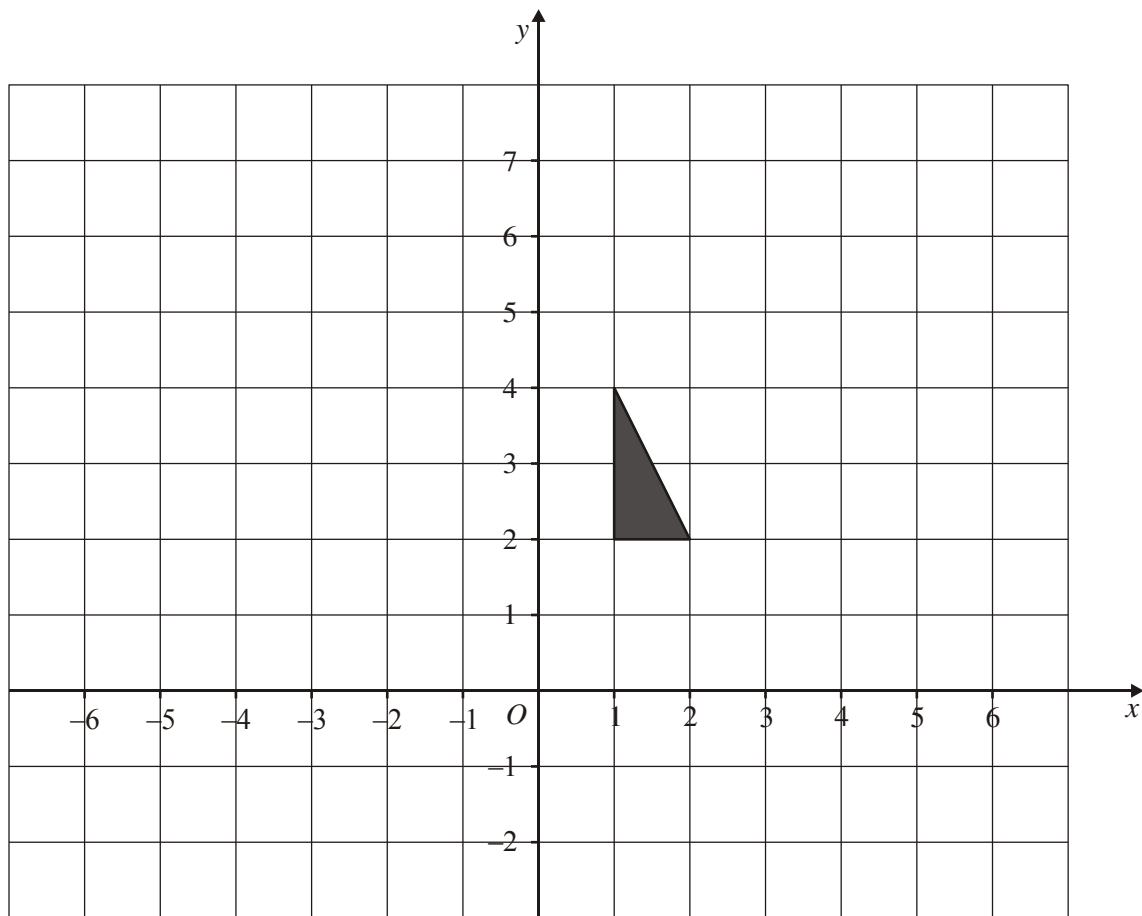


On the grid, translate triangle **P** by the vector  $\begin{pmatrix} 8 \\ -3 \end{pmatrix}$

Label the new triangle **Q**.

(2)  
(Total 2 marks)

6.

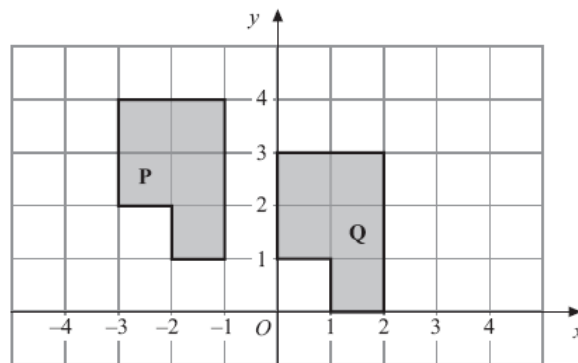


Translate the triangle by the vector

$$\begin{pmatrix} 4 \\ -3 \end{pmatrix}$$

**(Total 2 mark)**

7.



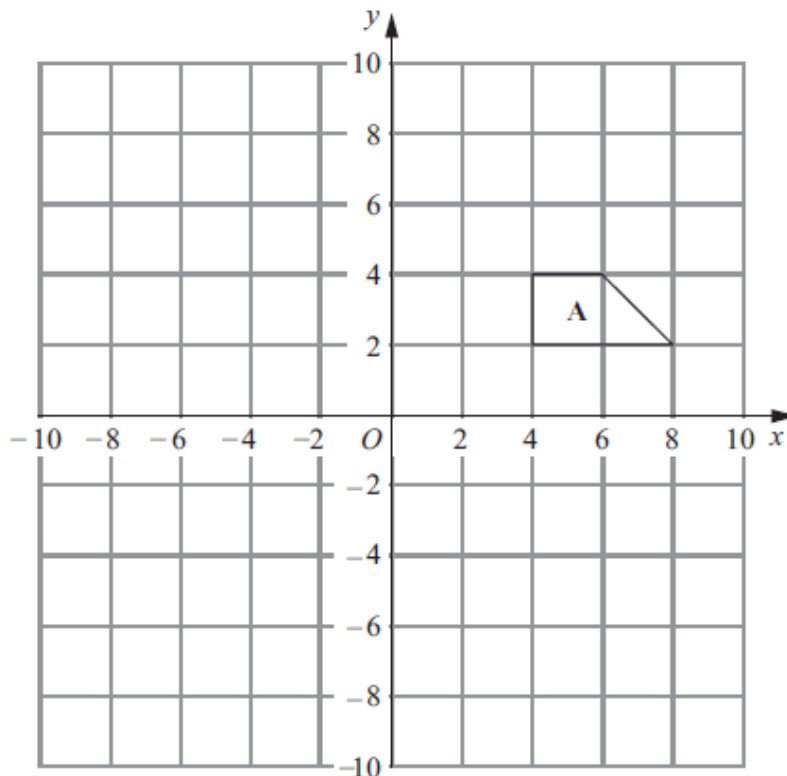
Describe fully the single transformation that will map shape **P** onto shape **Q**.

.....

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(2)  
(Total 2 marks)

8.

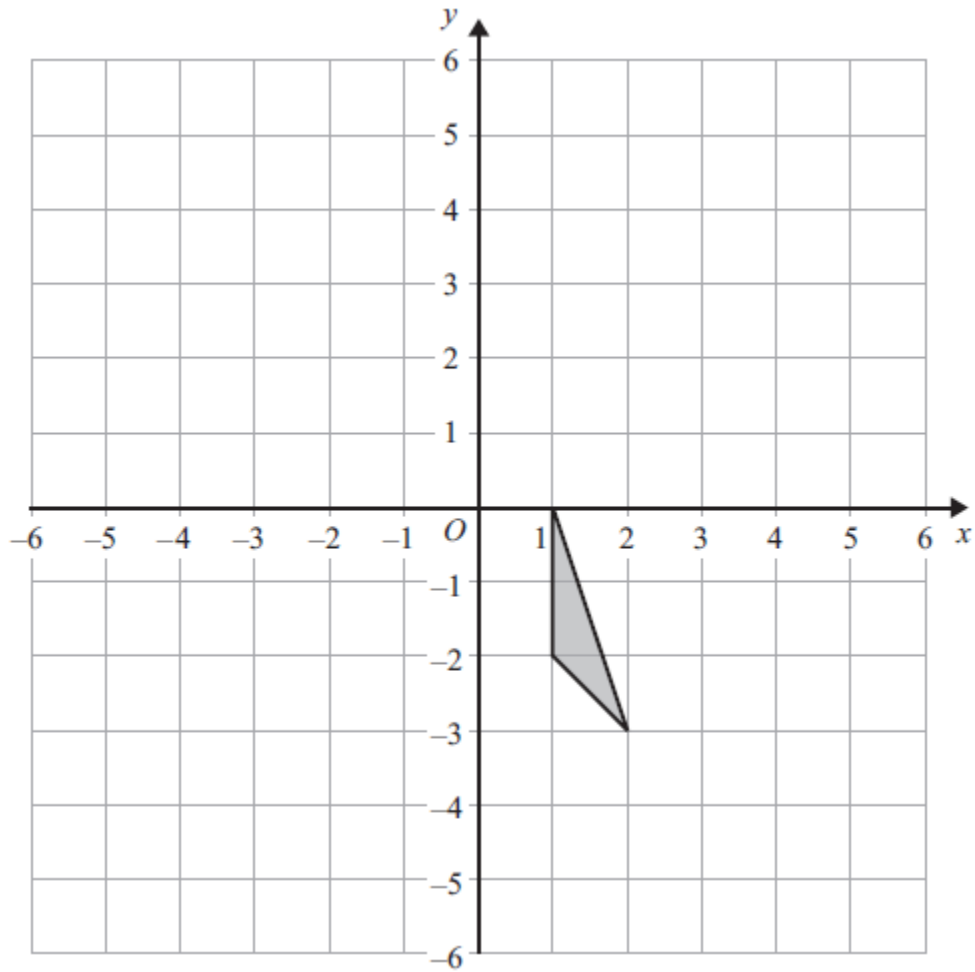


Translate shape **A** by  $\begin{pmatrix} -8 \\ -2 \end{pmatrix}$ .

Label the new shape **B**.

(Total 2 marks)

9.



Translate the triangle by  $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$

(Total 2 marks)

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