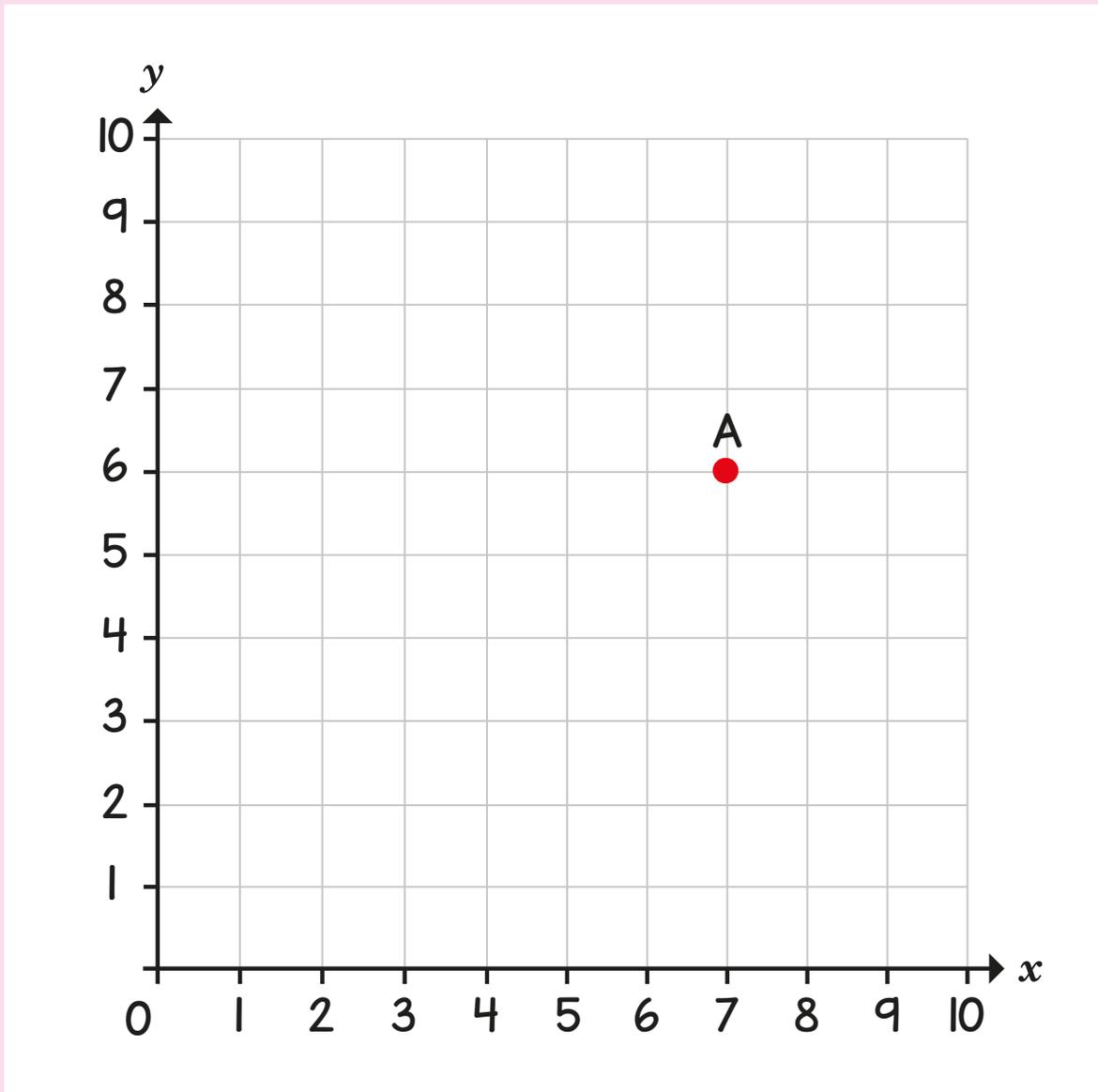


# 6

# POSITION AND DIRECTION

White  
Rose  
Maths





Write the coordinates of point A.

(  ,  )

Plot the points B and C on the grid.

B (4, 4)

C (7, 4)

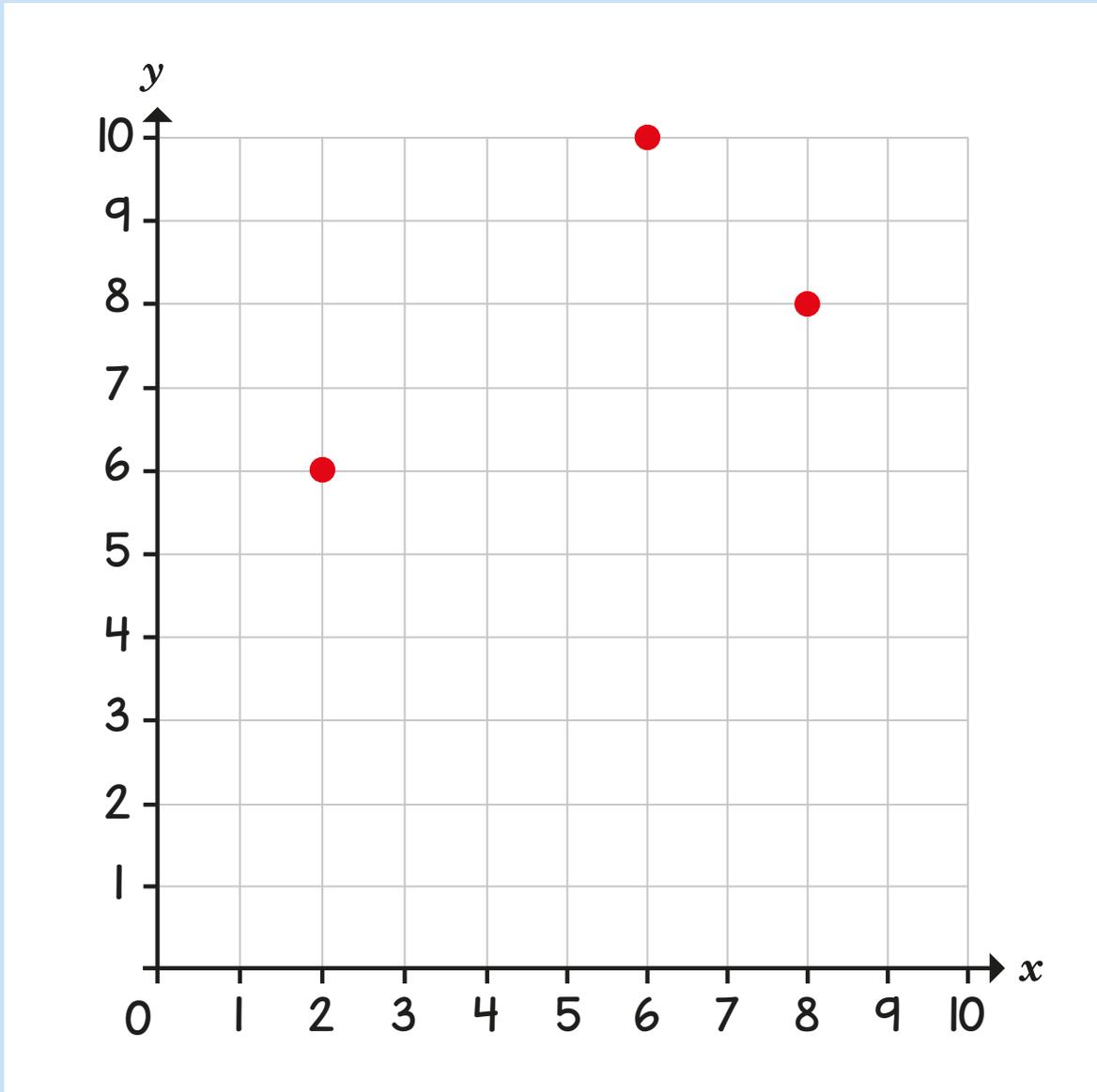
Join up the three points to make a triangle.

What type of triangle have you drawn?

---

2

Teddy is drawing a rectangle on a grid. He plots three of the vertices.



Write the coordinates of the three vertices Teddy has plotted.

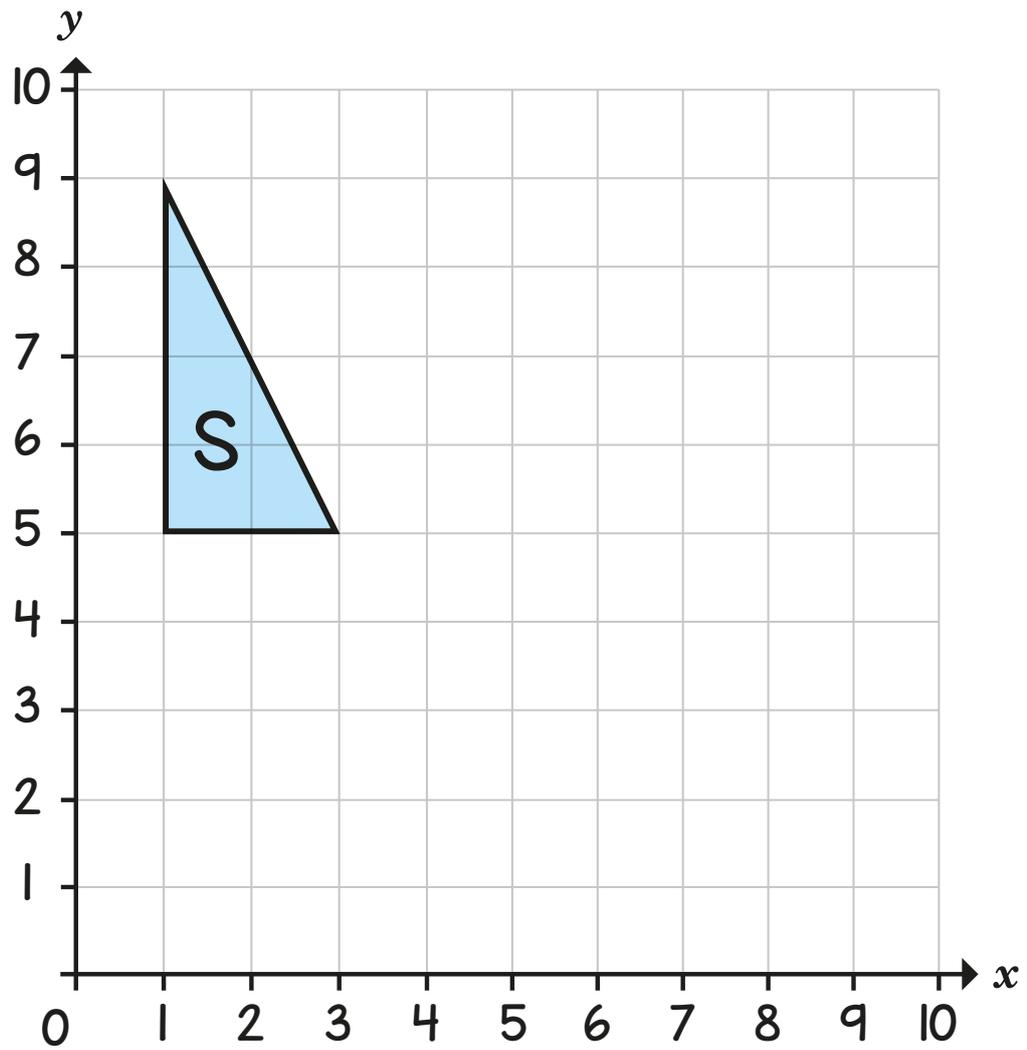
(  ,  ) (  ,  ) (  ,  )

Plot the final vertex of the rectangle.

What are the coordinates of the final vertex?

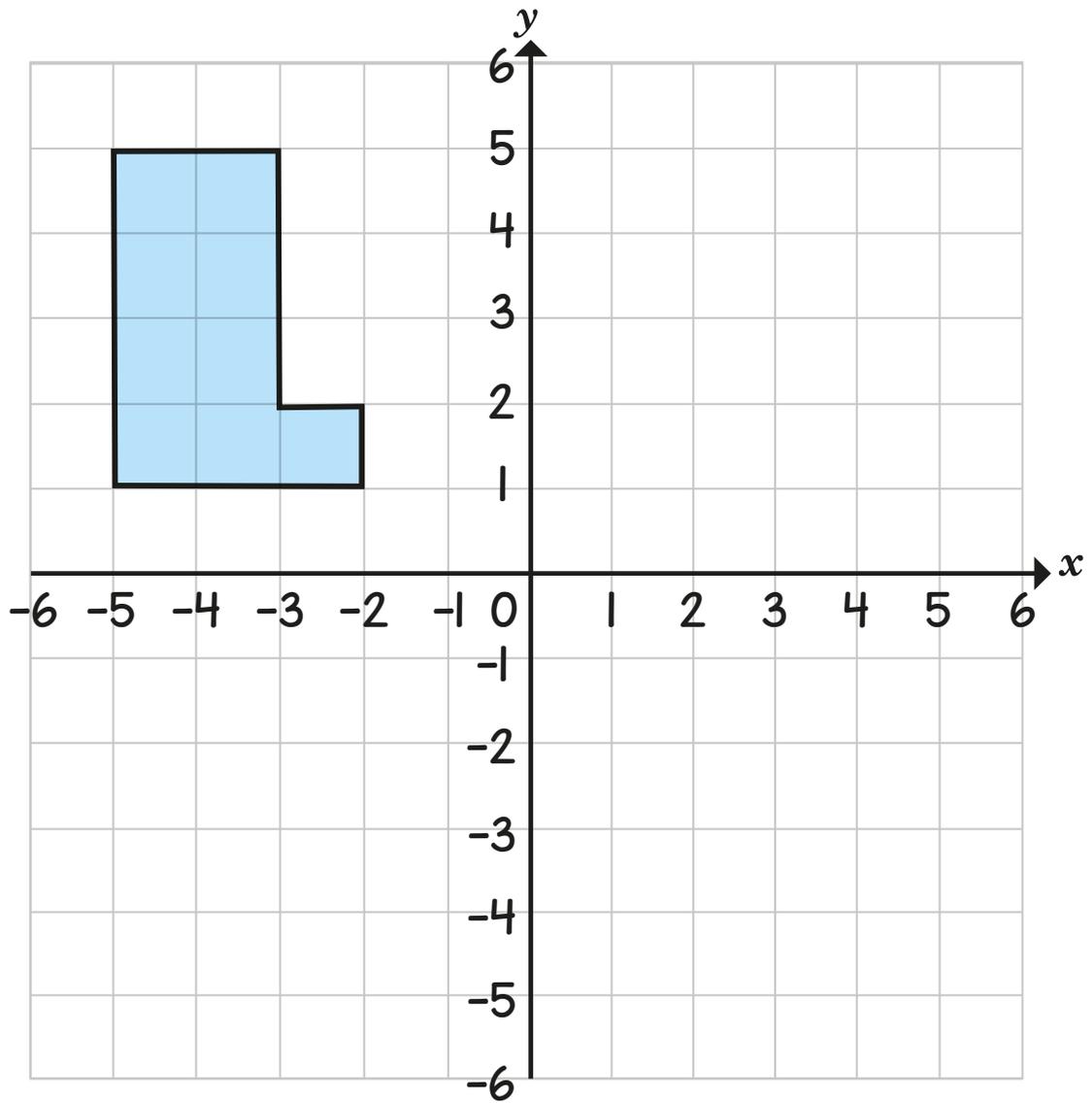
(  ,  )

3



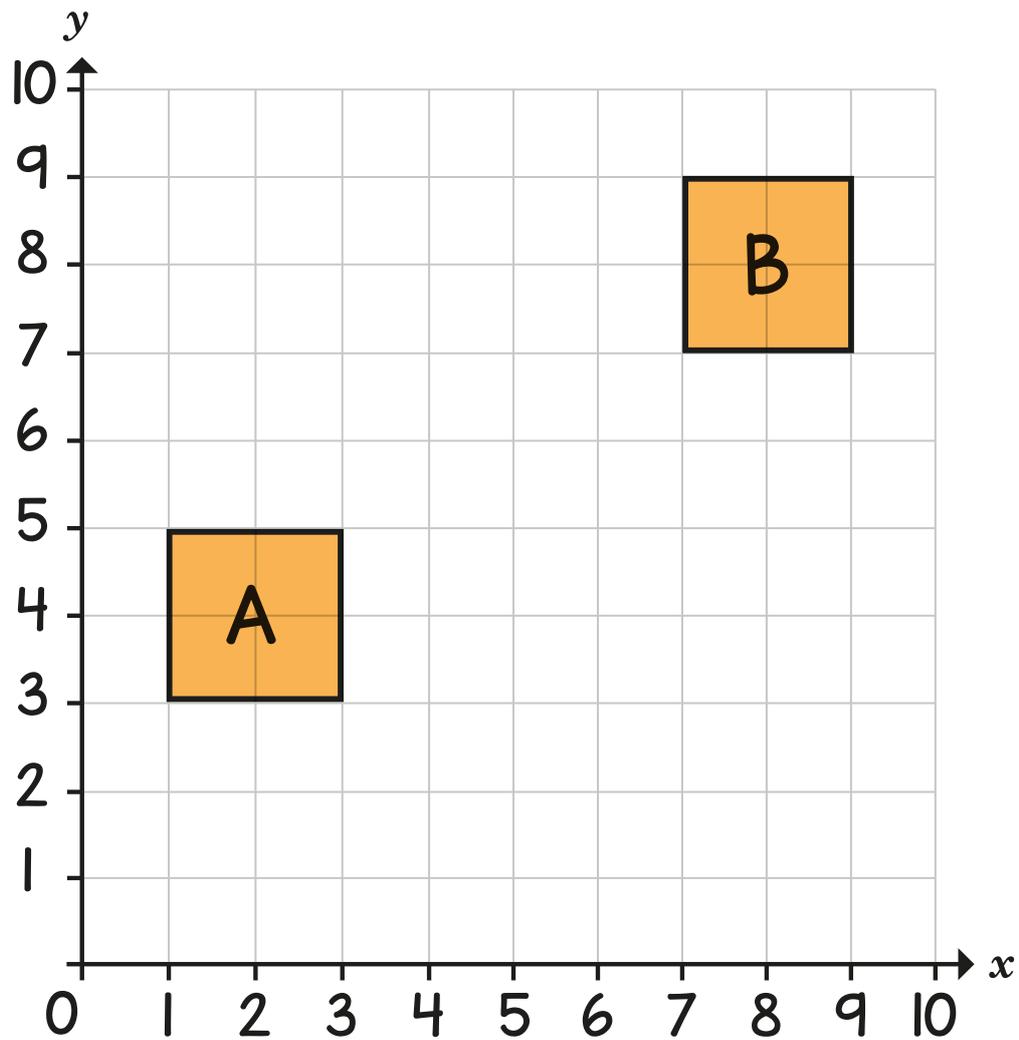
Translate triangle S, 4 units right and 2 units down.  
Label your triangle T.

4



Reflect the shape in the  $y$  axis.

5



Eva is asked to translate shape A 4 units right and 2 units up.

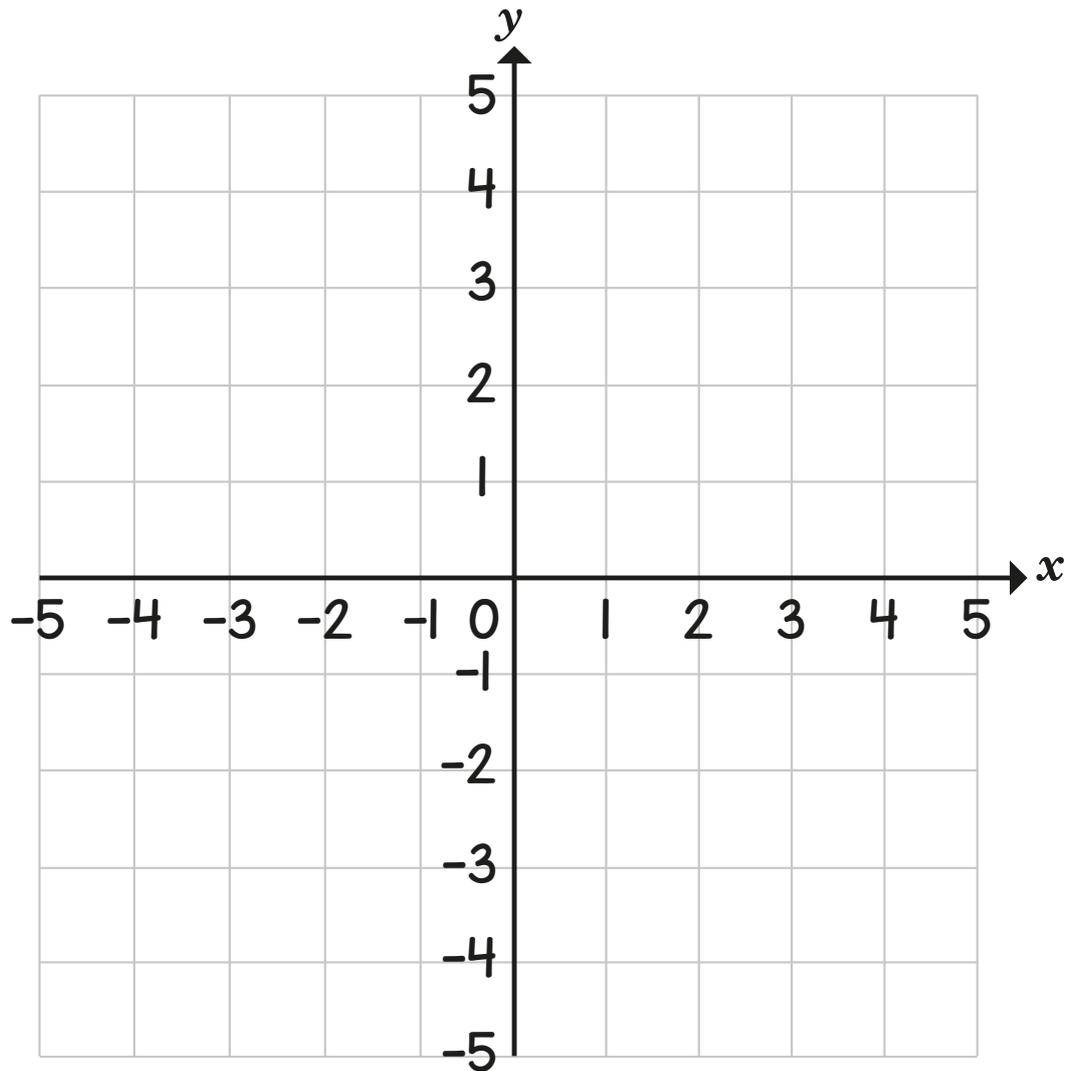
She labels her new shape B.

Explain why Eva's translation is wrong.

What are the coordinates of the correctly translated shape?

(  ,  ) (  ,  ) (  ,  ) (  ,  )

6



On the grid, draw the shape with vertices at  $(-4, -4)$ ,  $(-4, -2)$  and  $(-1, -4)$

Reflect the shape in the  $x$  axis. Label your shape P.

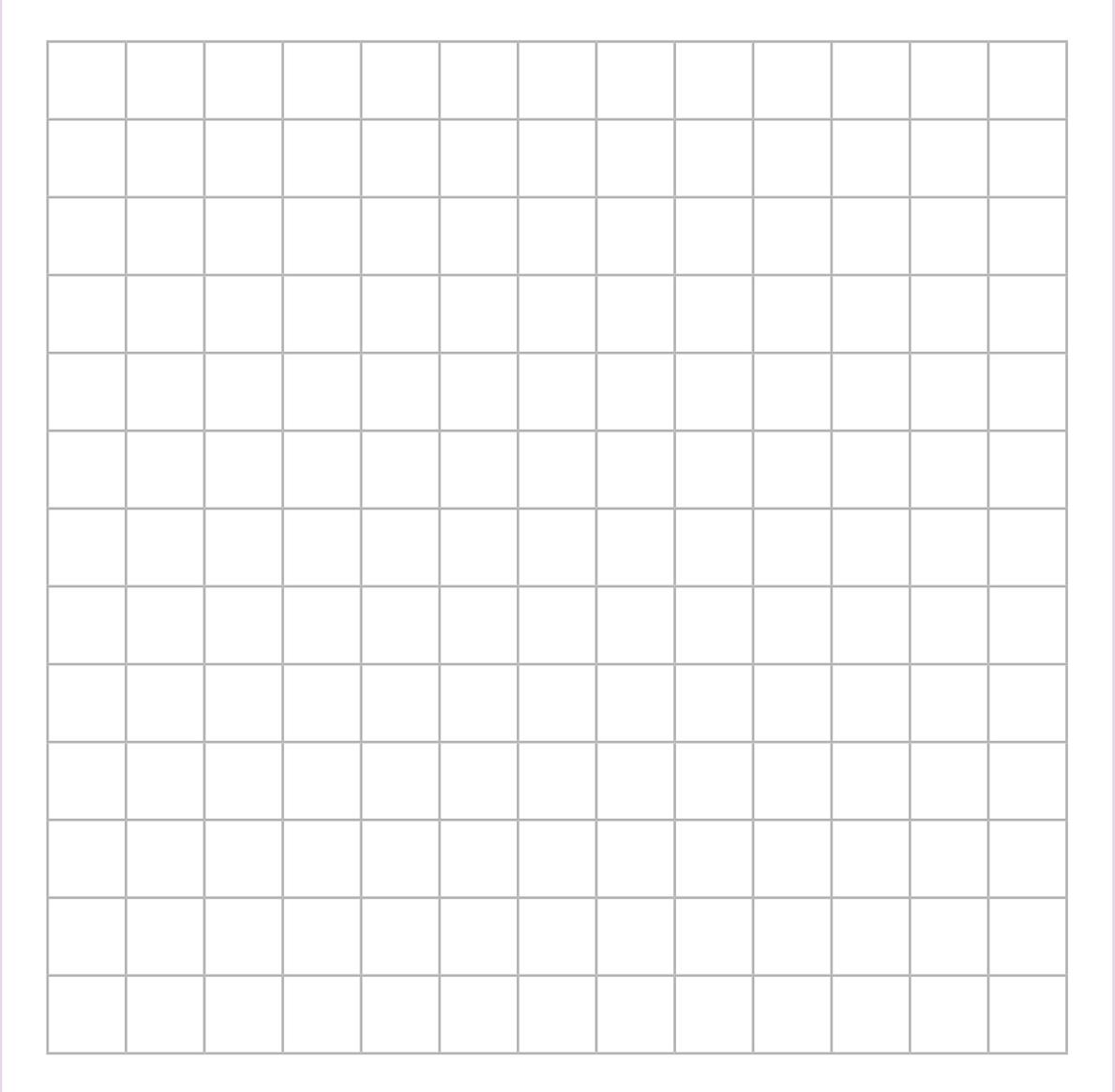
Translate shape P 6 units right and 5 units down.  
Label your new shape Q.

7

A square is drawn on a grid.

Two of its vertices are at  $(2, 2)$  and  $(5, 5)$

What is the perimeter of the square?

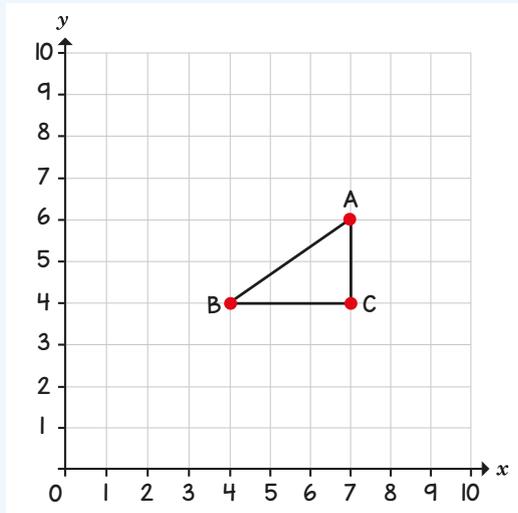


A large empty rounded rectangular box for writing the answer.

# Answers

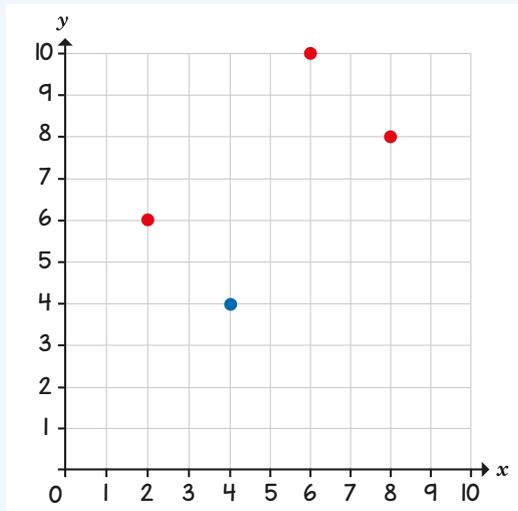


1 (7, 6)



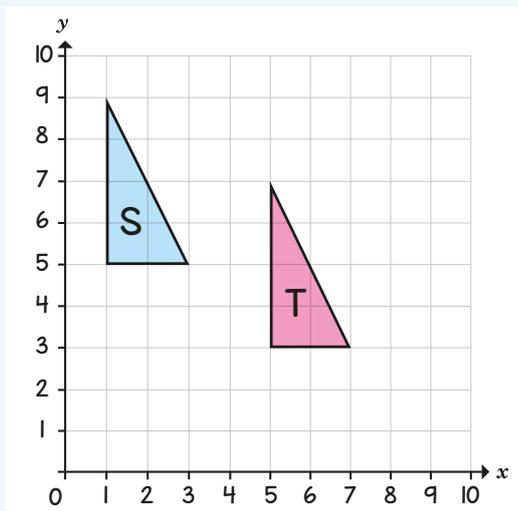
Right-angled triangle

2 (2, 6) (6, 10) (8, 8)

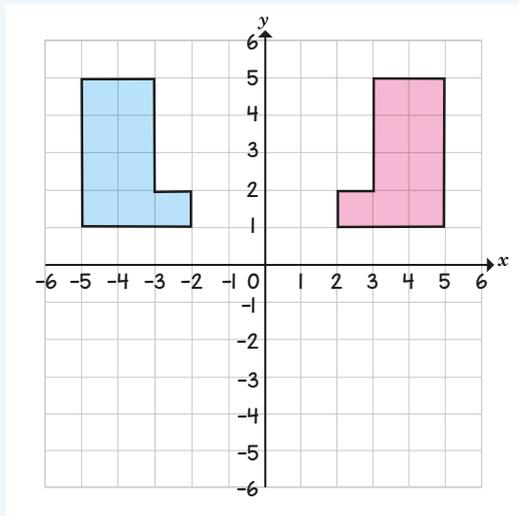


(4, 4)

3



4

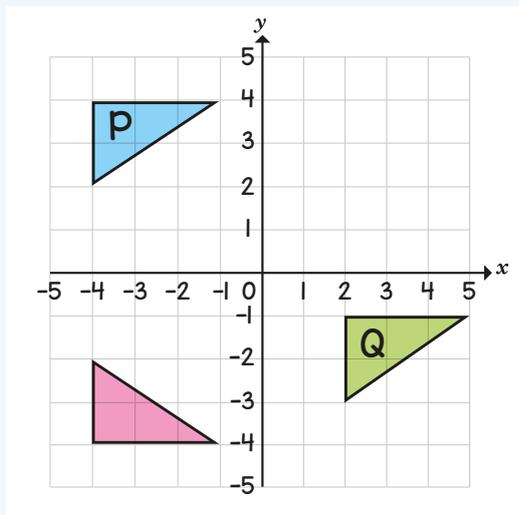


5

Eva is wrong because she has translated one vertex 4 units right and 2 units up, but then drawn the rest of the shape incorrectly from this vertex.

(5, 5) (7, 5) (5, 7) (7, 7)

6



7

12 units