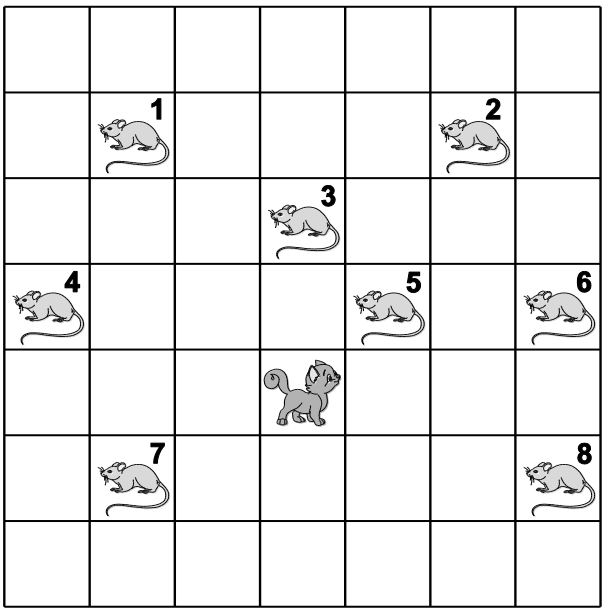
Geometry – Position and Direction

1 The cat is chasing mice.

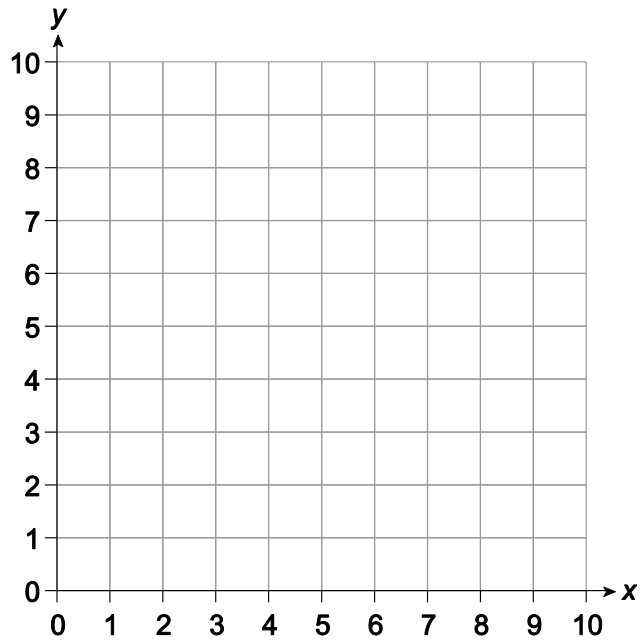


The cat moves 3 squares left and 1 square up.

Write the number of the mouse that it catches.

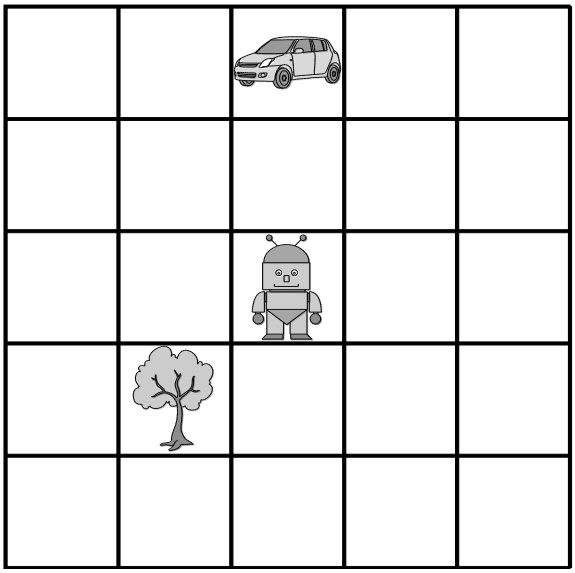
1 mark

2 Mark the point (5, 3) with a cross (×).



1 mark

3 A robot is in the middle of the grid.



To move to the car, the robot follows the instructions:

UP 2

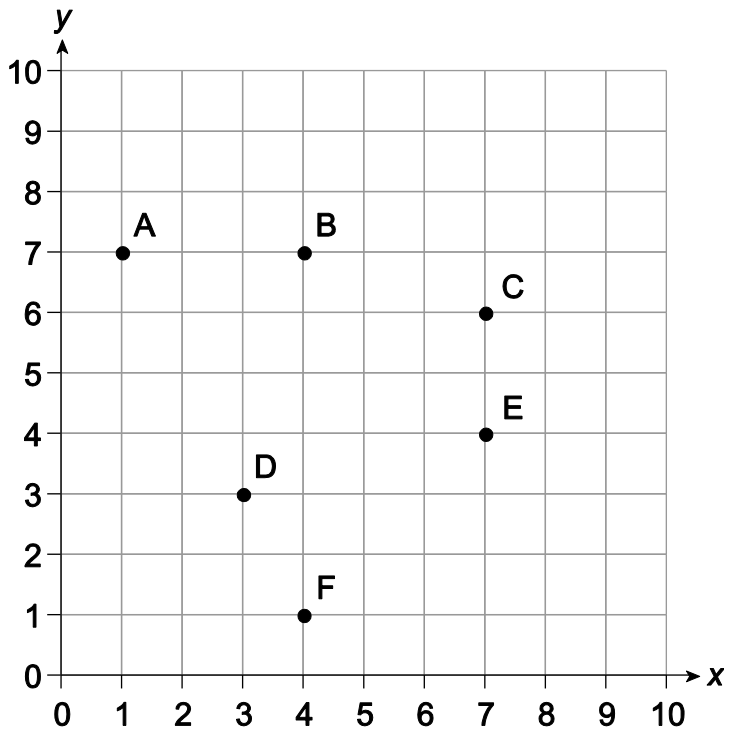
Write instructions to move the **car** to the **tree**.

Use only **LEFT** or **RIGHT**, and **UP** or **DOWN**.

_____

1 mark

4 Some points are marked on the coordinate grid.



Which points have an *x*-coordinate of 7?

_____

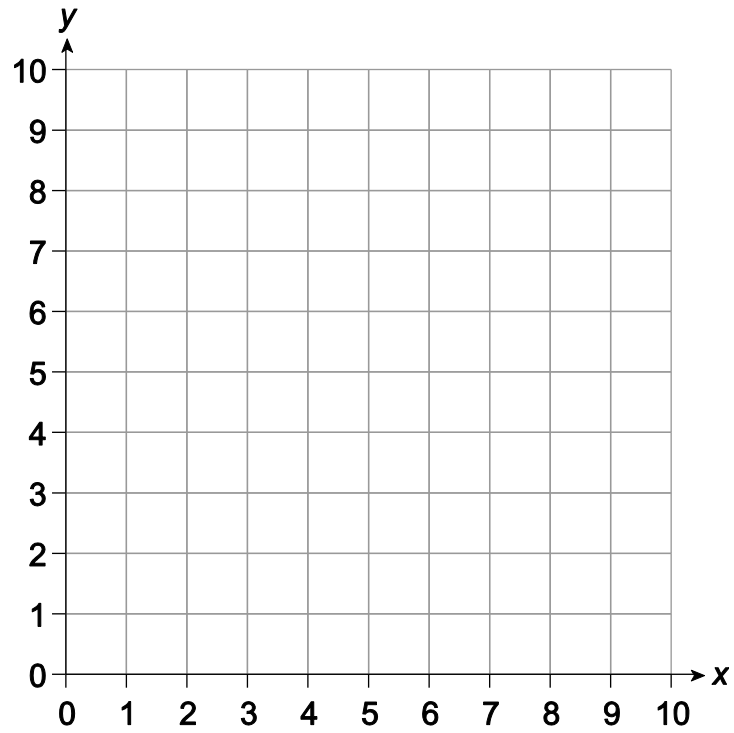
1 mark

Translate the point D two squares left and one square down. Label it X.

1 mark

5 A square has three vertices at (3, 5), (6, 5), (6, 2).

Plot these points on the grid.

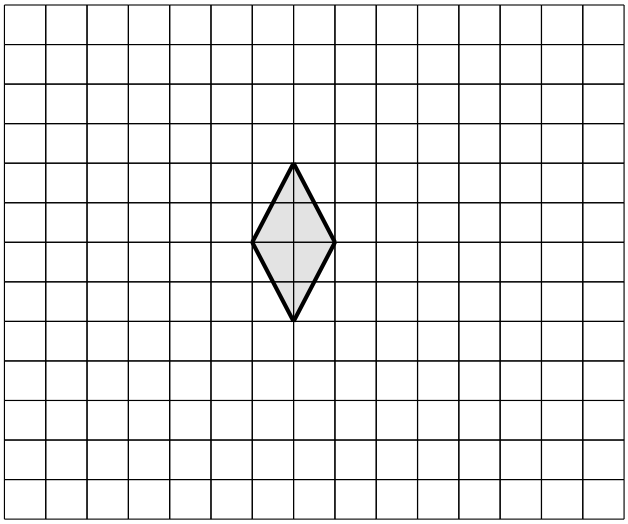


1 mark

What are the coordinates of the fourth vertex?

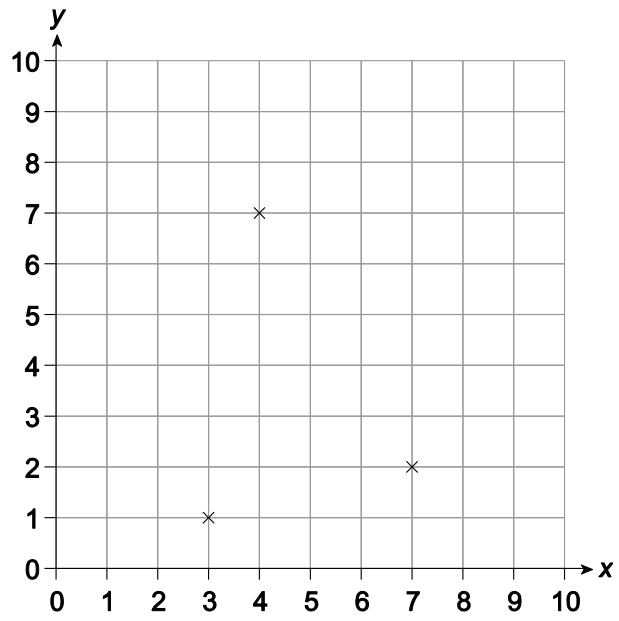
1 mark

6 Translate the shape 5 squares to the right and 4 squares down.



1 mark

7 Three vertices of a parallelogram are plotted on the grid.

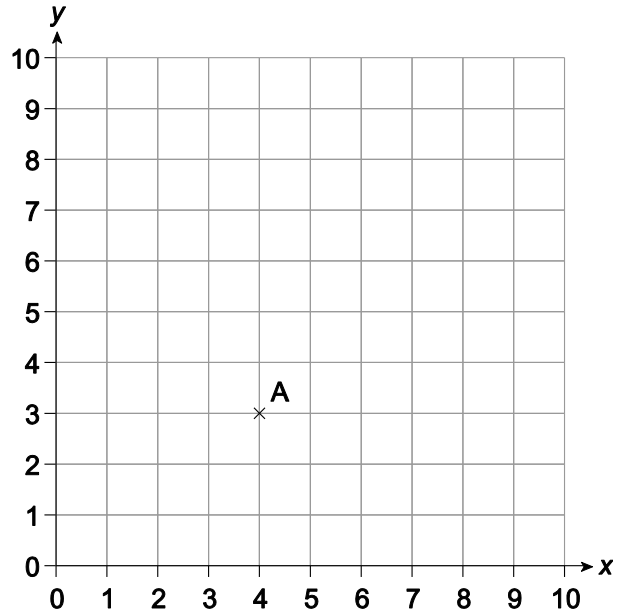


Plot the fourth point and join the points to complete the parallelogram.

1 mark

8 The point A has coordinates (4, 3).

Plot **three more points** where the *x*-coordinate is **1 more** than the *y*-coordinate.



2 marks

Total _____ / 11 marks