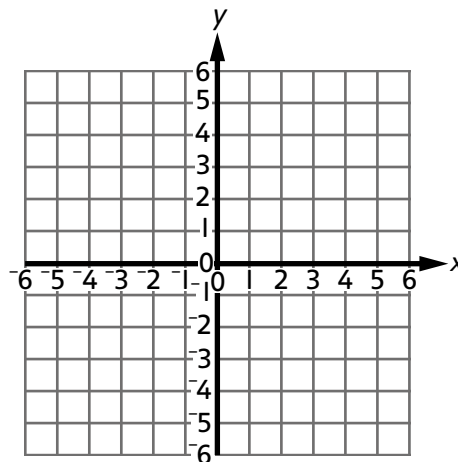


Deepen Activities

1 A treasure chest is hidden at one point on this grid.

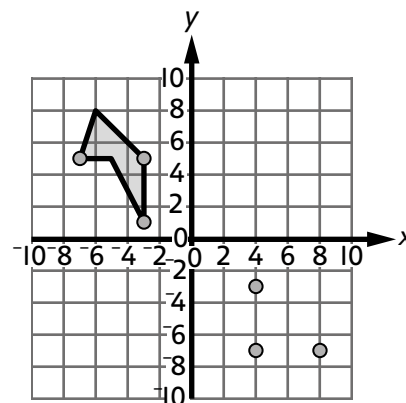
- Ebo says, 'It is in a rectangle with vertices at $(-3, -2)$, $(1, 2)$ and $(-3, -3)$.'
- Danny says, 'It is in a square with vertices at $(-3, -3)$, $(-1, 0)$ and $(0, 5)$.'
- Emma says, 'It is in a triangle with vertices at $(-2, 2)$, $(4, 1)$ and $(4, -3)$.'

Where is the treasure chest?



2 This shape is moved on a grid. Some of the new vertices are shown.

- Complete the new shape and label the coordinates of its vertices.
- Describe how it moved. Use the words 'reflected' and 'translated'.



3 A right-angled triangle has two vertices at $(-2, -2)$ and $(1, -4)$.

- What might the third vertex be?
- The triangle is half of a square. Give the coordinates of the square.
- The square is half of a rectangle. Give the coordinates of the rectangle.

I think there is more than one possible rectangle!

