Mathematics

Inequalities and the Cartesian plane Downloadable Resource

Mr Maseko



Try this

(,)

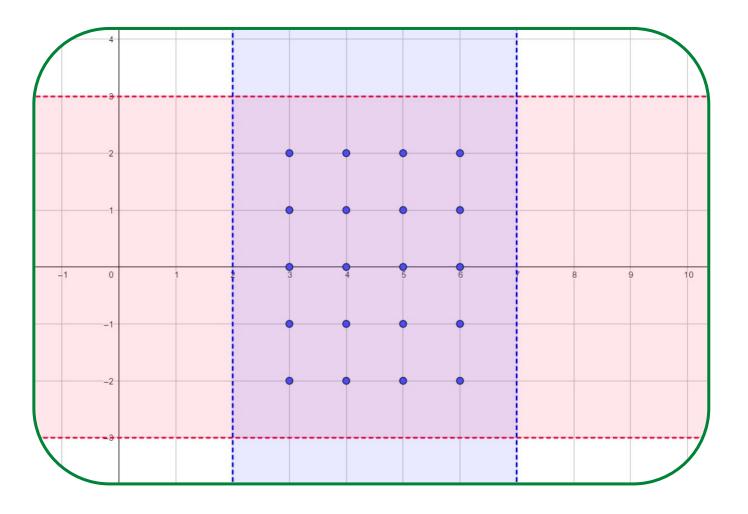
Fill in the blanks to make a coordinate with the following rules

- a) The x-ordinate must be greater than 2 and less than less
- b) The y-ordinate must be greater than -3 and less than 3



Connect

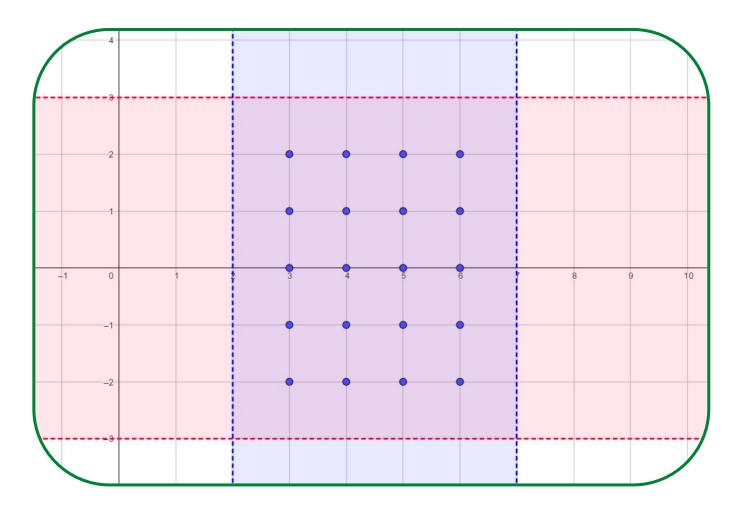
We can draw horizontal and vertical lines on a coordinate grid to show the boundaries we have been set





Connect

Writing as inequalities



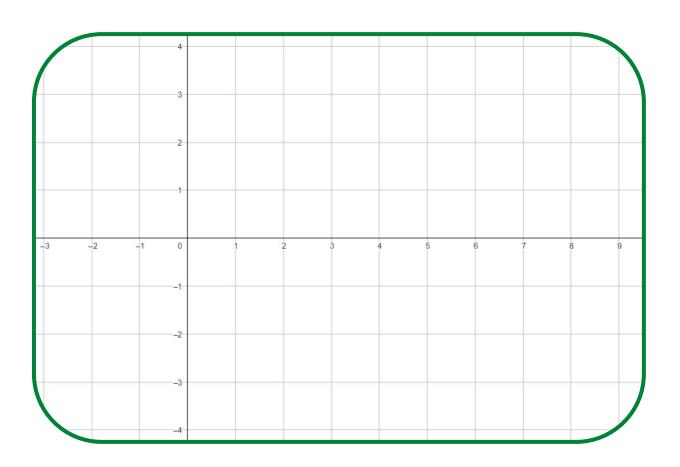


Independent task

- 1) Write the inequality -5 < x < 3 in words.
- 2) On the grid, show all the coordinates that satisfy the following inequalities

$$-2 < x < 3$$

$$-2 < y < 2$$





Explore

Find another pair of inequalities that can be satisfied with exactly 20 integer coordinates.

This diagram shows there are 20 coordinates with integer values within the following inequalities

$$-3 < y < 3$$

