Mathematics

Solving Linear Simultaneous Equations Graphically Solving inequalities graphically

Independent Task

Ms Jones



Try this

For each inequality, write 5 coordinates that satisfy it

$$x \ge 3$$

$$x + y > 5$$

$$y < 2$$
: e.g. (4, -1), (190, 1), (120, 1.5)

$$x \ge 3$$
: e.g. (3, 4), (3.5, 129), (12, 12)

$$x + y > 5$$
: e.g. (2, 4), (2.5, 3), (-1, 7)



Independent task

$$x \ge -1$$

$$x + y > 2$$
 $y \le 6$

$$y \le 6$$

$$y - x < 1$$

Which of the inequalities above satisfy the following coordinates?

a)
$$(-2, 4)$$

$$(3, -2)$$

$$(-2, -5)$$

$$(-2.4, 7.4)$$

2. Which of the coordinates above are satisfied by the following inequalities?

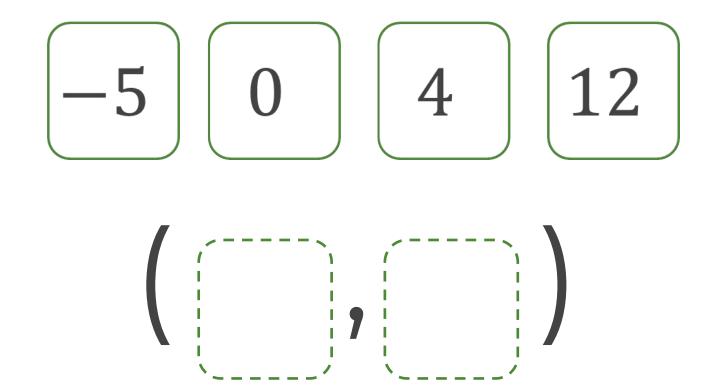
c)
$$x \leq 3$$

d)
$$y > -2$$



Explore

How many different coordinates can you make using the numbers below



For each coordinate you've made can you write three inequalities that it satisfies. Try and think of unusual examples.

