Mathematics

Naming straight line graphs Downloadable Resource

Mr Maseko
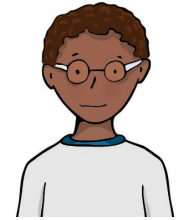
Try this

Xavier, Yasmin, and Zaki are thinking of a coordinate.

1 Write 3 different coordinates each student might be thinking of...

2 Is it possible that 2 students are thinking of the same coordinate?

In my coordinate, the y-ordinate is 3 greater than the x-ordinate

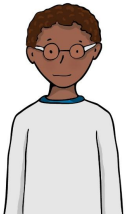In my coordinate, the y-ordinate is double x-ordinate

In my coordinate, the y-ordinate is 10

Connect

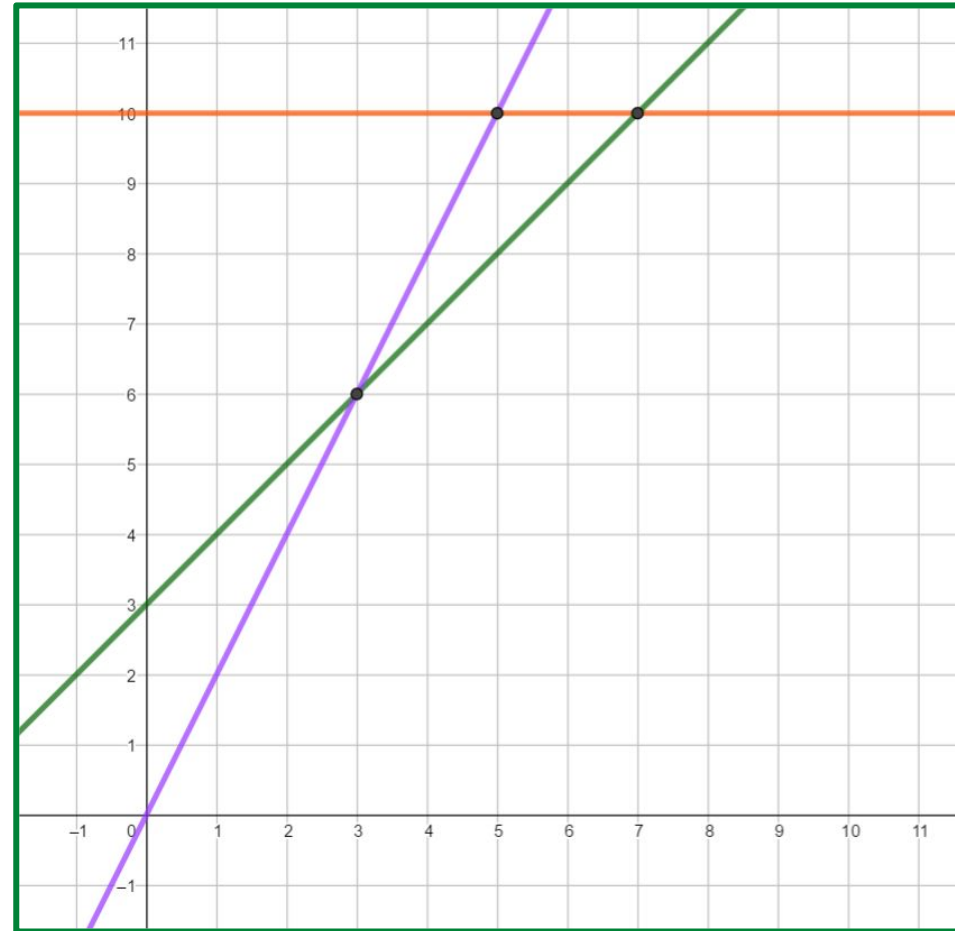... plot the 3 coordinates you came up with for each student on a coordinate grid
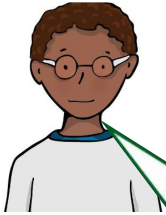
(1,4), (0,3), (8,11)

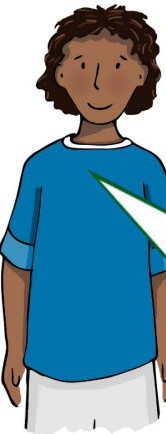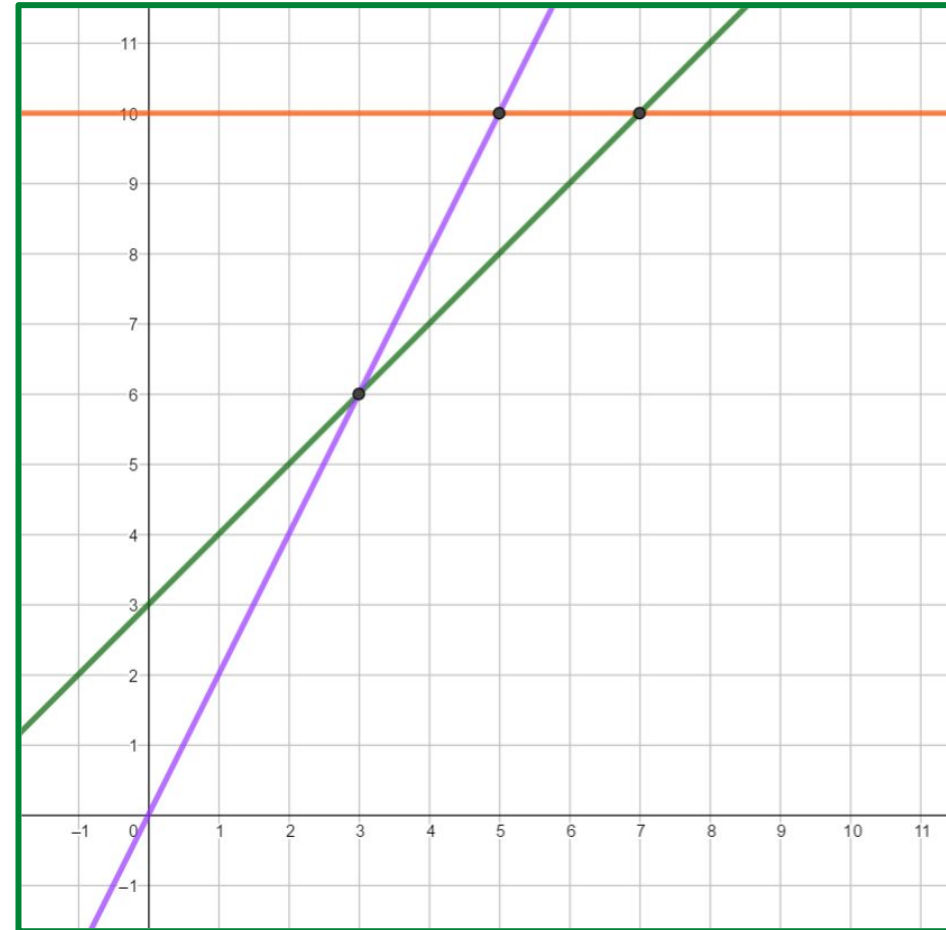(2,4), (4,8), (6,12)

(2,10), (5,10), (12,10)

Connect

In my coordinate, the y-ordinate is 3 greater than the x-ordinate
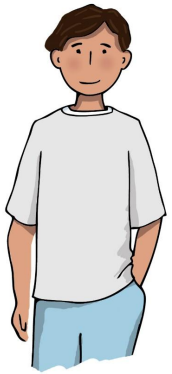
In my coordinate, the y-ordinate is double x-ordinate

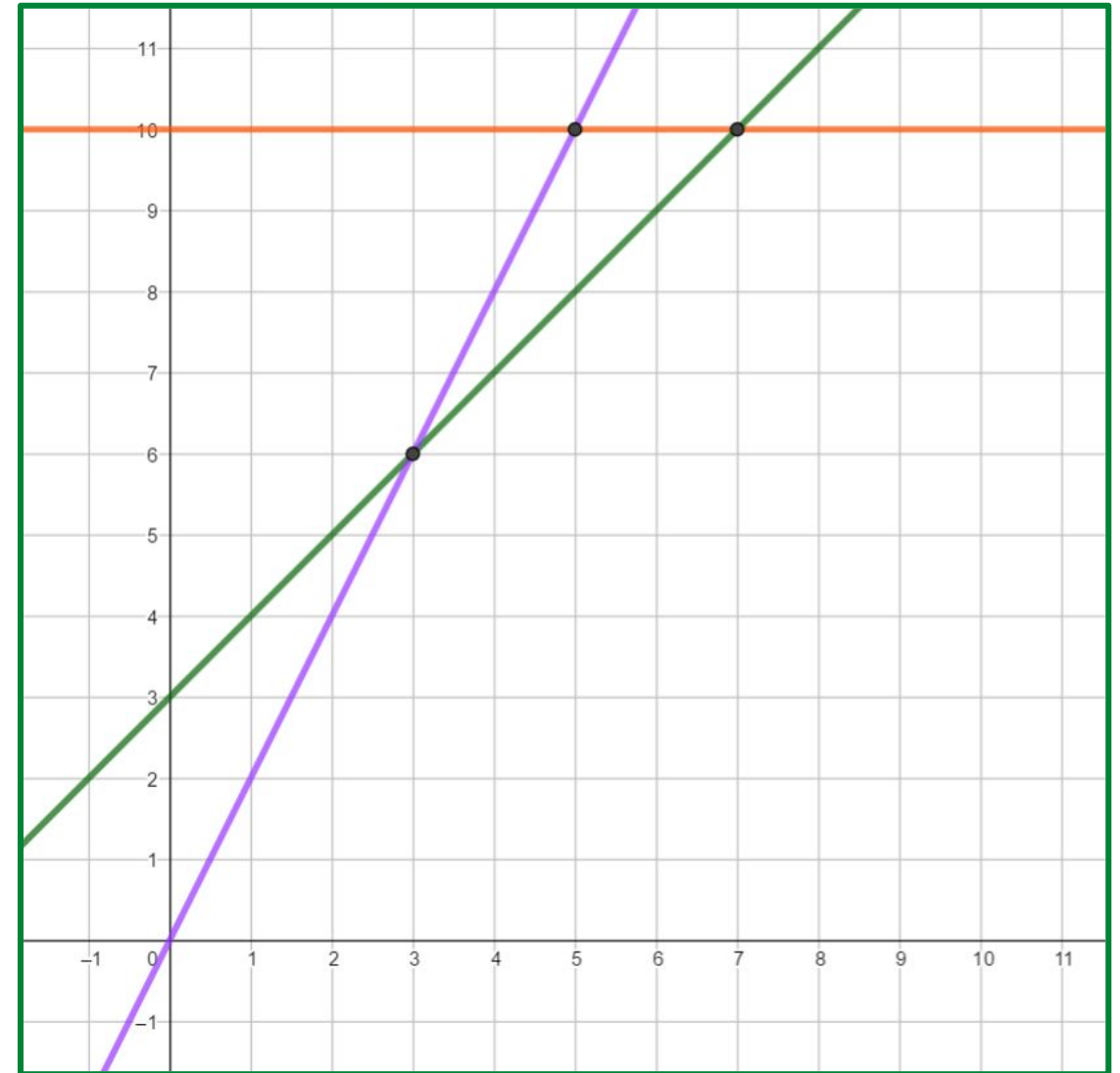In my coordinate, the y-ordinate is 10

Connect

In my line, all of the y-ordinates are 1 less than the x-ordinate

Plot and correctly label Antoni's line

Independent task

1) **List 3 coordinates on the following lines**

a) $y = 3x$

b) $y = 10 - x$

c) $y = x + 4$

2) **Complete the coordinates that lie on the line $y = 12 - x$**

a) (1,   )

b) (8,   )

c) (,12)

d) (-1,   )

3) **Find 3 lines which (2,6) lies on**

Explore

$(5, 10)$

This point would be on the line $y = 2x$

This point would be on the line $y = 15 - x$

1 Find some other lines that (5, 10) would lie on.

2 Come up with your own for the following coordinates

$(0, 0)$ $(3, 9)$ $(4, -4)$