

Points on a Straight Line *fluency*

ANSWERS

 Find y when x has the value given

1 $y = 2x + 3, x = 4$

$y = 11$

2 $y = 3x - 1, x = 5$

$y = 14$

3 $y = 5x, x = 6$

$y = 30$

4 $y = x + 7, x = -2$

$y = 5$

5 $y = 4x - 6, x = 0$

$y = -6$

6 $y = 10 - 2x, x = 3$

$y = 4$

 Find x when y has the value given

7 $y = 3x - 2, y = 13$

$x = 5$

8 $y = 2x + 5, y = 17$

$x = 6$

9 $y = 4x, y = 30$

$x = 7.5$

10 $y = x - 8, y = -1$

$x = 7$

11 $y = 5x + 2, y = -8$

$x = -2$

12 $y = 12 - 3x, y = 0$

$x = 4$

 Is the point on the line? Write yes or no.

13 $(2, 7)$ on $y = 3x + 1$

yes

14 $(3, 1)$ on $y = 2x - 4$

no

15 $(6, -1)$ on $y = 5 - x$

yes

16 $(0.5, 3)$ on $y = 4x$

no

17 $(-2, -1)$ on $y = 2x + 3$

yes

18 $(4, 2)$ on $y = 6 - 2x$

no

 Find where the line crosses each axis

19 $y = 2x + 6$

$(0, 6)$ and $(-3, 0)$

20 $y = 3x - 9$

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

21 $y = 8 - 4x$

$(0, 8)$ and $(2, 0)$

22 $y = 5x + 10$

$(0, 10)$ and $(-2, 0)$

23 $y = 12 - 3x$

$(0, 12)$ and $(4, 0)$

24 $y = 2x - 7$

$(0, -7)$ and $(3.5, 0)$

 Find the missing coordinate

25 $(4, ?)$ on $y = 5 - 2x$

-3

26 $(?, 9)$ on $y = 4x + 1$

2

27 $(?, 8)$ on $y = 3x - 7$

5

28 $(1.5, ?)$ on $y = 2x + 0.5$

3.5

29 $(?, -4)$ on $y = 10 - x$

14

30 $(?, 2)$ on $y = 6x - 1$

0.5