Term 2 Worksheet 10 – The point where two lines meet

Name: **Answers**

How to find the coordinates of a point where 2 lines meet.

a. Make both equations look like : '$y = ax + b$'

b. Drop the 'y's and make both equations *equal* to each other

c. Solve for 'x'

d. Plug the value of 'x' back into one of the two equations and solve for 'y'

$\star$ **important!**

1) Solve for both 'x' and 'y'.

a) $y = 3x + 4$ and $y = 6x - 8$

$$3x + 4 = 6x - 8$$
$$-6x \quad -6x$$
$$-3x + 4 = -8$$
$$-4 \quad -4$$
$$\frac{-3x}{-3} = \frac{-12}{-3}$$
$$x = 4$$

$$y = 6(4) - 8$$
$$y = 24 - 8$$
$$y = 16$$

b) $y = 7x + 19$ and $y = 3x - 7$

$$7x + 19 = 3x - 7$$
$$-3x \quad -3x$$
$$4x + 19 = -7$$
$$-19 \quad -19$$
$$\frac{4x}{4} = \frac{-26}{4}$$
$$x = -6.5$$

$$y = 3(-6.5) - 7$$
$$y = -19.5 - 7$$
$$y = -26.5$$

c) $y = -8x + 20$ and $y = 2x - 48$

$$-8x + 20 = 2x - 48$$
$$-2x \quad -2x$$
$$-10x + 20 = -48$$
$$-20 \quad -20$$
$$\frac{-10x}{-10} = \frac{-68}{-10}$$
$$x = 6.8$$

$$y = 2x - 48$$
$$y = 2(6.8) - 48$$
$$y = 13.6 - 48$$
$$y = -34.4$$

d) $y = 11x + 7$ and $y = -15x - 32$

$$11x + 7 = -15x - 32$$
$$+15x \quad +15x$$
$$26x + 7 = -32$$
$$-7 \quad -7$$
$$\frac{26x}{26} = \frac{-39}{26}$$
$$x = -1.5$$

$$y = -15(-1.5) - 32$$
$$y = 22.5 - 32$$
$$y = -9.5$$

e) $y = \frac{1}{4}x - 25$ and $y = -\frac{5}{8}x + 45$

$$0.25x - 25 = -0.625x + 45$$
$$+0.625x \quad +0.625x$$
$$0.875x - 25 = 45$$
$$+25 \quad +25$$
$$\frac{0.875x}{0.875} = \frac{70}{0.875}$$
$$x = 80$$

$$y = 0.25(80) - 25$$
$$y = 20 - 25$$
$$y = -5$$

f) $y = \frac{1}{2}x + 10$ and $y = \frac{3}{4}x - 2.5$

$$0.5x + 10 = 0.75x - 2.5$$
$$-0.75x \quad -0.75x$$
$$-0.25x + 10 = -2.5$$
$$-10 \quad -10$$
$$\frac{-0.25x}{-0.25} = \frac{-12.5}{-0.25}$$
$$x = 50$$

$$y = 0.25(50) - 25$$
$$y = 37.5 - 2.5$$
$$y = 35$$

Geometry Hs Mathematics Unit Lesson 9th Grade

Shasha Hu

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