

Name _____
Date _____

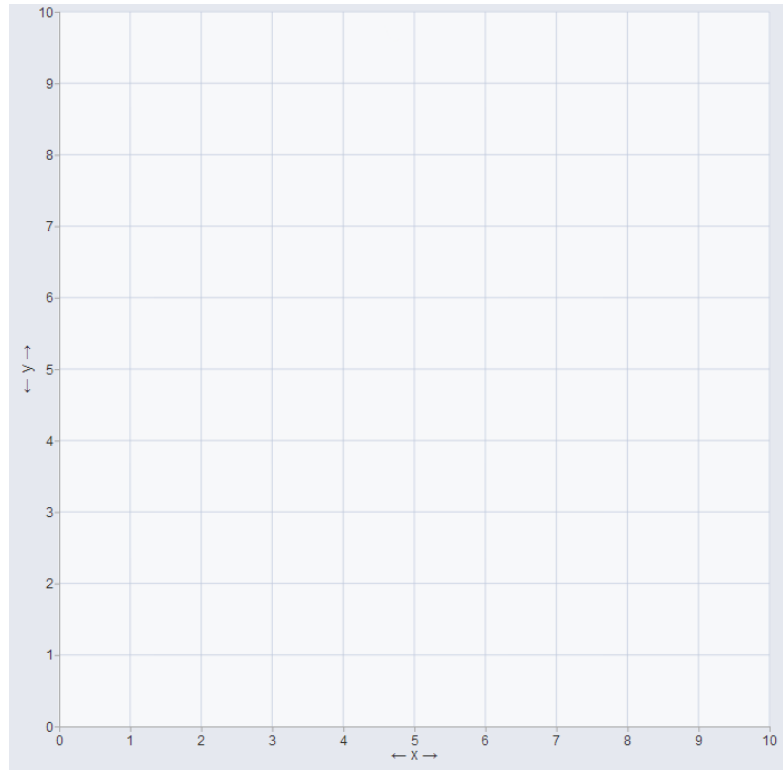
Systems of Equations Word Problems Part 2
Check-In Activity

1. At the Classic Candy Shoppe, Chocolate candies sell for \$3.50 an ounce and Fruity candies sell for \$2 an ounce. You buy 8 ounces of candy for \$20.50. How many ounces of each type of candy did you purchase?

a) Define your variables.

c) Graph your equations on the given x-y axes.

b) Write two equations to model the given situation.



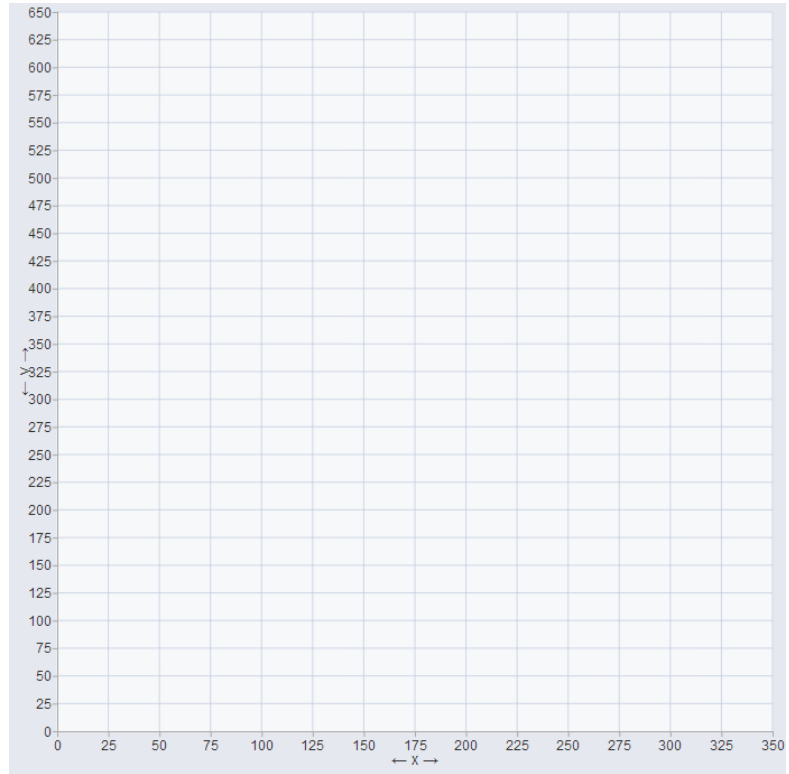
d) How many ounces of each type of candy did you purchase?

2. You have 330 coins in your piggy bank containing only quarters and dimes. After counting your money you find that you have \$63.75 total. How many quarters and how many dimes do you have?

a) Define your variables.

c) Graph your equations on the given x-y axes.

b) Write two equations to model the given situation.



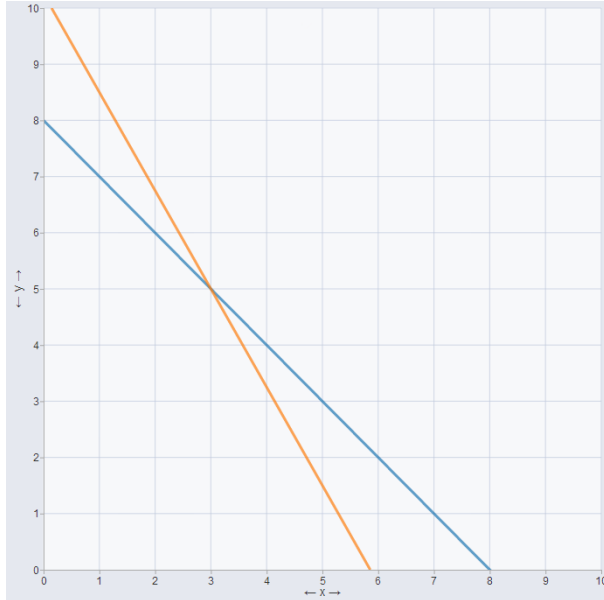
d) How many quarters and how many dimes do you have?

Answer Key:

1. a) Let x be ounces of chocolate candy.
Let y be ounces of fruity candy.

b)
$$\begin{cases} x + y = 8 \\ 3.5x + 2y = 20.5 \end{cases}$$

c)

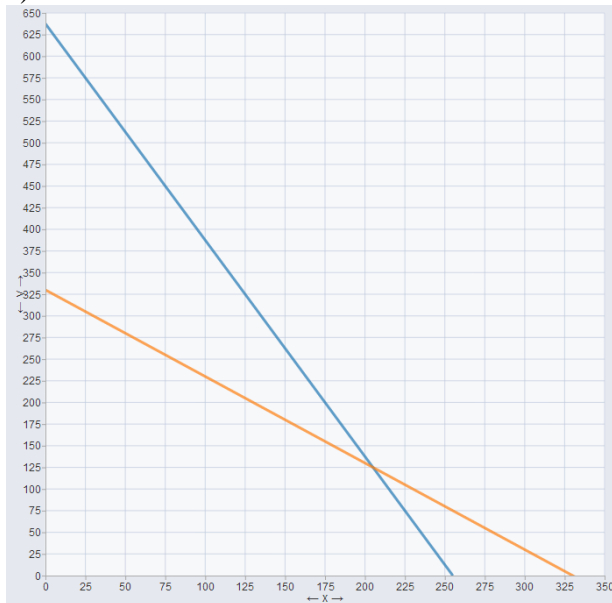


- d) 3 ounces of chocolate candy and 5 ounces of fruity candy.

2. a) Let x be the number of quarters.
Let y be the number of dimes.

b)
$$\begin{cases} x + y = 330 \\ 0.25x + 0.1y = 63.75 \end{cases}$$

c)



- d) 205 quarters and 125 dimes