

Algebra 1 Bellwork Thursday, December 10, 2015

Write a function rule for each table of values.

1.

X	Y
-8	-12
-2	3
0	8
5	20.5
12	38

$y =$

2.

X	Y
-5	12
-3	7.2
4	-9.6
11	-26.4
20	-48

$y =$

3. A towing company charges \$75 to come to where your car is broken down and 85 cents per mile to tow your car.

a) How much will you have to pay if you need to have them tow your car 15 miles to your favorite repair shop?

b) How far did they tow your car if the total bill was \$109?

4. You sold 24 necklaces at the craft fair for \$190.80.

a) How many necklaces did you sell if you made \$143.10?

b) How much would you make if you sold 13 necklaces?

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Write a function rule for each table of values.

1.

X	Y
-8	-12
-2	3
0	8
5	20.5
12	38

Before adding 8

-20

-5

0

12.5

30

$$30 \div 12 = 2.5$$

$$Y = 2.5X + 8$$

2.

X	Y
-5	12
-3	7.2
4	-9.6
11	-26.4
20	-48

$$12 \div -5 =$$

$$Y = -2.4X$$

3. A towing company charges \$75 to come to where your car is broken down and 85 cents per mile to tow your car.

a) How much will you have to pay if you need to have them tow your car 15 miles to your favorite repair shop?

$$T = 75 + .85(15)$$

$$T = \$87.75$$

$$T = 75 + .85m$$

T = TOTAL CHARGE

m = # miles

b) How far did they tow your car if the total bill was \$109?

$$109 = 75 + .85m$$

$$-75 \quad -75$$

$$34 = .85m$$

$$\frac{34}{.85} = \frac{.85m}{.85}$$

$$m = 40 \text{ miles}$$

4. You sold 24 necklaces at the craft fair for \$190.80.

$$\frac{\$190.80}{24 \text{ necklaces}}$$

$$= \$7.95 \text{ for each necklace}$$

$$= \$7.95 \text{ for each necklace}$$

$$T = 7.95N$$

T = TOTAL \$ made

N = # Necklaces

a) How many necklaces did you sell if you made \$143.10?

$$\frac{\$143.10}{7.95} = \frac{7.95N}{7.95}$$

$$N = 18 \text{ necklaces}$$

b) How much would you make if you sold 13 necklaces?

$$T = 7.95(13)$$

$$T = \$103.35$$