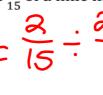
Do Now

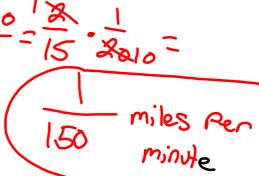
Evaluate the following:

1)
$$\frac{\frac{1}{3}}{3}$$
 $\frac{1}{3}$ $\frac{\cdot}{3}$ $\frac{3}{\cdot}$ $\frac{1}{3}$ $\frac{1}{$

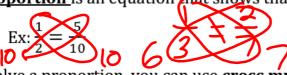
$$\begin{array}{|c|c|c|c|c|c|}\hline & 2 & \frac{2}{5} & \frac{1}{4} &$$

3) A crew of highway workers paved $\frac{2}{15}$ of a mile in 20 minutes. What is their work rate is



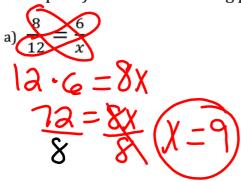


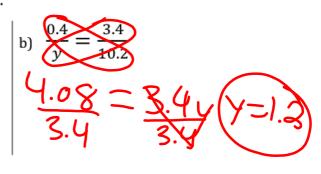
4) Solve algebraically: 6x = 294



To solve a proportion, you can use cross multiplication to solve for the unknown quantity. To use cross multiplication, multiply the numerator of one ration with the denominator of the other.

Example 1) Solve the following proportions:





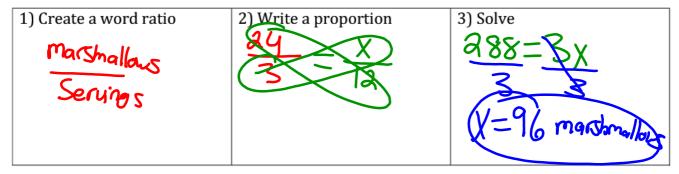
Try it! Solve the following proportions

2)
$$\frac{72}{90} = \frac{x}{25}$$

 $75.25 = 90x$
 $1800 = 90x$
 $90 = 90x$
 $1.4 = 1.5y$
 $2.1 \cdot 1.4 = 1.5y$
 $2.94 = 1.8y$
 $1.96 = y$

Example 4) Derek counted 24 marshmallows in 3 ervings of Marshy Morsels. At this rate, how many marshmallows are in 12 servings?

Steps:



Example 5) A train travels 120 miles in 1.5 hours. At this rate, how many miles can it travel in 5 hours?

travel in 5 hours?

Miles
$$\frac{120.5 = 1.5x}{600 = 1.5x}$$

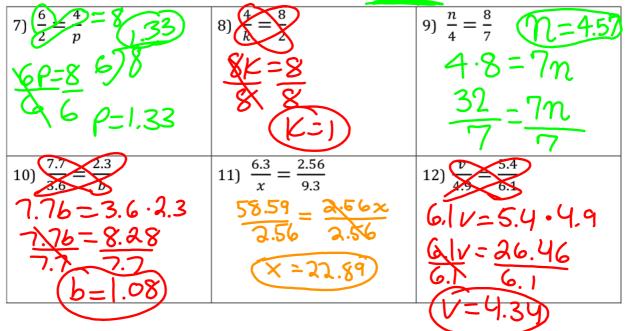
Try it! $\frac{120.5 = 1.5x}{1.5}$

6) A computer downloads a 48 kilobyte file in 5 seconds. At this rate, how long will it take the computer to download a file that is 120 kilobytes?

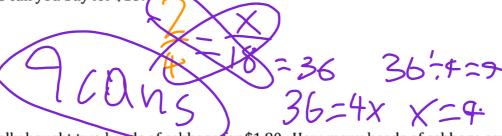
$$\frac{2.5}{5}$$
 $5 \times 2.5 = 12.5$ seconds Ryan

Now, You Try!

Solve the following proportions. Round to the nearest hundredth if necessary.



13) At Stop-N-Shop, two cans of pineapple chunks cost \$4. How many cans of pineapple chunks can you buy for \$18?



14) Molly bought two heads of cabbage for \$1.80. How many heads of cabbage can she



 $28.80.2 = 1.80 \times \frac{57.6 = 1.80 \times}{1.80}$

16) Sean took a trip to Mexico. Upon leaving, he decided to convert all of his Pesos back into US Dollars. How many US dollars did he receive if he exchanged 42.7 Pesos at a rate of \$5.30 = 11.1 Pesos?

