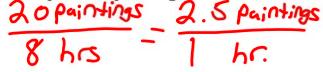


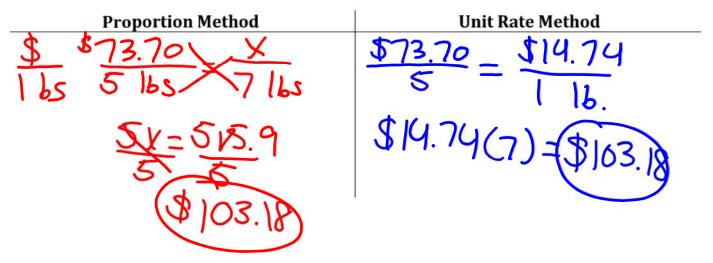
<u>Recall:</u>

Frank can paint 20 paintings in 8 hours. Find his unit rate in paintings per hour.



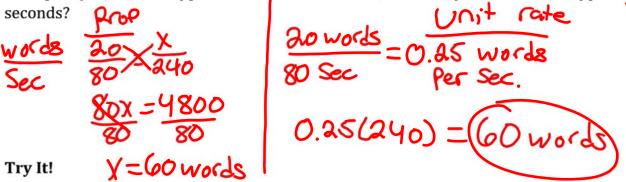
We can solve proportional word problems in two different ways: by solving proportions or by solving unit rate.

Example 1) At the store, beef jerky was \$73.70 for 5 pounds. If you bought 7 pounds, how much would it cost?

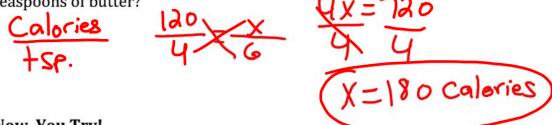


Lesson 25 Key

Example 2) If Janet can type 20 words in 80 seconds, how many words can she type in 240



There are 120 calories in 4 teaspoons of peanut butter. How many calories are in 6 teaspoons of butter?



Now, You Try!

3) Chris had 72 hits in 200 at-bats. At that rate, how many hits will he have in 275 at-bats?

 $200 \approx = 275 \times 72$ $200 \approx = 19800$ 99 hits $200 \approx = 99$ $200 \approx = 99$

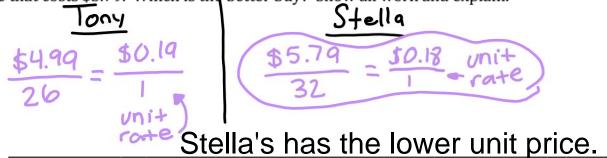
4) Julie can walk $\frac{3}{4}$ of a kilometer in $\frac{5}{6}$ of an hour.

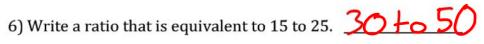
A) Find the unit rate, in kilometers per hour.

$$\frac{m}{hr} = \frac{3}{4} \frac{m}{5} \frac{3}{6} \frac{18}{6} \frac{18}{20} = \frac{9}{10} \frac{m}{hr} \frac{m}{hour}$$
B) How long can Julie walk after 3 hours?

$$\frac{9}{10} \cdot \frac{3}{1} = \frac{37}{10} = \frac{27}{10} \frac{10}{10} \frac{m}{hour}$$

5) Tony sells a 26 ounce jar of pasta sauce for \$4.99. Stella sells a 32 ounce jar of pasta sauce that costs \$5.79. Which is the better buy? Show all work and explain.





#5-7: A soccer team finishes the regular season with a record of 14 wins to 5 losses.

Write the ratio of:

5) wins to losses	6) Losses to games played	7) Losses to wins
14 +0 5	5 to 19	5 +0 14

#8-9: Determine if the following is a **rate** or a **unit rate**.



#10-11: Define the following. LOOK BACK IN YOUR NOTES IF YOU DON'T REMEMBER. 10) A ratio is <u>a comparison of two quantities.</u>

12) What is the **difference** between a rate and a unit rate? <u>a unit rate is</u> <u>a rate out of one and a rate compares</u> quantites of different units.