

Ratio



Rate

Proportion

Can you recall what these are??



a comparison between two numbers with the same units

Example: length = 8m width 6_m







a comparison between

Rate:

a comparison between two numbers with different units

Example:

Listana - WKm

Proportion:

a fractional statement of equality __

between two ratios or rates

State two more ways to write the ratio 3/4.

$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$$

Jean-Luc, a builder, works in Kentville, Nova Scotia. He has found that he can arrange the work cubicles of his employees best if the ratio between the length and the width of a room is 20:2. If a room is 6 m long, how wide should the room be?

- 1. State the variable and Set up ratio or rate.
 - Let x = the width of the room
 length
- 2. Fill in ratio or rate (Fill in what you know)

3. Create proportion.

4. Solve for the unknown.

$$\frac{\partial x}{\partial x} = \frac{6}{30}$$

$$\frac{\partial x}{\partial x} = \frac{10}{30}$$

$$\frac{\partial x}{\partial x} = \frac{1$$

If halibut steaks cost \$2.49 for 94 g, how much will it cost to buy 250 g of halibut steaks?



- Lot x = the price of halibut
- Price

2. Fill in what you know. 3. Create proportion.

1. State the variable and Set up ratio or rate.

4. Solve for the unknown.

$$\frac{94x}{94} = \frac{699.5}{94}$$

$$x = 6.63$$

It would cost \$6.60 for 250g of halibut

Recipe #1

3 cups of concentrate

7 cups of water



If you only have 2 cups of concentrate of recipe #1, how many cups of water will you need?

Let x = the # of cups of water

concentrate water

3522 X

 $\frac{3x}{3} = \frac{14}{3}$

X= 4.6 cups

you need 4.6 cups of water.

You Try!!

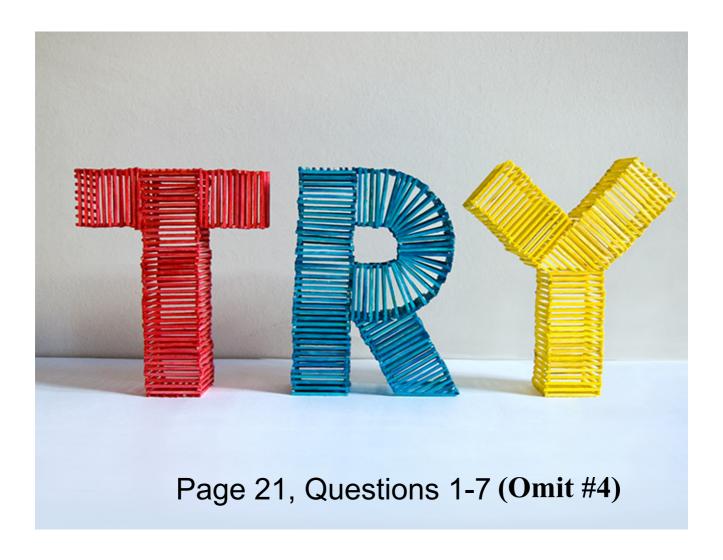
A chainsaw's engine uses a mixture of 31 L of gas to 2 L of oil. How much oil must you mix with 15 L of gas?

Let x = the amount of oil

$$\frac{31 x}{31} = \frac{30}{31}$$

$$X = 0.97L$$

X = 0.97L you will need 0.97L of oil.



4. Thurs Fri Sat Sun
4 6 ? ?
Total = 36-10 = 26
26 = 2days = 13
They sold 13 on Sat & Sun.
13 36
5. Let X = Siu height
Siu Siu is 120.8 cm 3 5 = x 6 145 cm
6x = 725 6 $X = 120.8$

