

1. a) Hailee charges \$12.00 for a 12" homemade pizza. It costs her \$6.50 to prepare the pizza, by what percentage did she mark up the price? (% markup)
- b) Hailee wants to make \$6.50 on every 15" pizza she sells. If it costs her \$7.00 to make, by what percentage will she mark up the price?



$$\begin{aligned} \text{a) Markup} \quad & 12 - 6.50 = \$5.50 \\ & \frac{5.50}{6.50} = 0.85 \\ & \quad \quad \quad 85\% \end{aligned}$$

$$\frac{\text{markup}}{\text{Org Price}}$$

$$\begin{aligned} \text{b) } \quad & \frac{6.50}{7.00} = 0.93 \\ & \quad \quad \quad 93\% \end{aligned}$$

2. iTunes had a sale on downloading music. You could purchase 20 songs from the top 100 list for \$15.00. How much would you be paying for one song with this deal?(Unit Price)



Price
Unit

$$\frac{\$15.00}{20} = 0.75 \text{ /song}$$

3. A lawnmower's engine uses a mixture of 5 L of gas and 0.5L of oil. How much oil must you mix with 2L of gas to refuel the lawnmower? (proportion/ratios)



Let $x = \text{Oil}$

$\frac{\text{Gas}}{\text{Oil}}$

$$\frac{5}{0.5} = \frac{2}{x}$$

$$\frac{5x}{5} = \frac{1}{5}$$

$$x = 0.2 \text{ L of oil.}$$

4. If the ratio of loaves of white bread sold compared to loaves of whole wheat bread sold is 3:1 and a bakery sells 100 loaves of whole wheat bread in a day, how many loaves of white bread would it sell in a day? (ratio/ proportion)

white - 3
Whole wheat - 1



Let $x = \text{white}$

$$\frac{3}{1} = \frac{\frac{\text{white}}{ww} \cdot x}{100}$$

$x = 300$ white bread

5. a) If you have 5200 pesos, how many Canadian dollars can you exchange them for? (currency exchange)

Bank Buying Rate = 0.083443
Bank Selling Rate = 0.108443

b) If you decided not to go to Mexico, how much money would you lose in the exchange?



$$a) \frac{1}{\text{rate}} = \frac{\text{USD}}{\text{CAN}}$$

$$\frac{1}{0.083443} = \frac{5200}{X}$$

$$X = \$433.90 \text{ CAD}$$

$$5200 - 4061.18 = 1198.82$$

$$b) \frac{1}{\text{rate}} = \frac{\text{USD}}{\text{CAN}}$$

$$\frac{1}{0.108443} = \frac{X}{433.90}$$

$$0.108443 X = 433.90$$

$$X = 4061.18$$

6. The price of a new HD-PVR is \$600.00.



- a) How much would a customer pay in Nova Scotia, where they are taxed 15%?
- b) How much would a customer pay in New Brunswick, where they are taxed 13%?
- c) How much do you save buying it in New Brunswick?
- d) What would be the difference between buying it in PEI instead of Nova Scotia?

$$a) \quad 600 \times 1.15 = \$690$$

$$b) \quad 600 \times 1.13 = 678$$

$$c) \quad 690 - 678 = \$12$$

$$d) \quad \begin{aligned} GST \ 600 \times 1.05 &= 630 \\ PST \ 630 \times 1.10 &= \$693 \\ 693 - 690 &= \$3. \end{aligned}$$

7. Troy sells hockey equipment. He is offering a sale of 30% off all items in the store. Helmets regularly sell for \$29.99 each, shoulder pads for \$39.99, and hockey sticks for \$79.95 each.

How much will it cost to buy 5 helmets, 4 sets of shoulder pads, and 6 hockey sticks?

$$5 \times 29.99 = 149.95$$

$$4 \times 39.99 = 159.96$$

$$6 \times 79.95 = 479.70$$

$$149.95 \times 0.70 = 104.97$$

$$159.96 \times 0.70 = 111.97$$

$$479.70 \times 0.70 = 335.79$$

$$\$ 552.73$$



Recipe #1

3 cups of concentrate
7 cups of water



You only want to make 8 cups of Recipe #1. How many cups of concentrate and how many cups of water will you need? Explain your solution.

- **This is a question dealing with totals!!!!!!**
- **We will determine the total of the batch & set up a total ratio.**

Batch Total

of concentrate = 3
of water = 7

Total # = 10



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Batch Total

$$\begin{aligned} \# \text{ of concentrate} &= 3 \\ \# \text{ of water} &= 7 \end{aligned}$$

Total # = 10

Total Ratio

Let x = concentrate

$$\frac{\# \text{ of concentrate}}{\text{Total}}$$

$$\frac{3}{10} = \frac{x}{8}$$

→ $10x = 24$

→ $x = 2.4$

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$$10x = 24$$

$$x = 2.4$$

2.4 Cups of Concentrate

Water = Total # - Concentrate

$$\text{Water} = 8 - 2.4$$

$$\text{Water} = 5.6$$

5.6 Cups of Water!!!!

Review

Page 50 & 51 #1 , #3, #6, #7, #8, #9

