

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?
- 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?



$$\text{a) } \frac{\text{Markup}}{\text{Org.}} \quad 12 - 6.50 = 5.50$$

$$\frac{\$5.50}{6.50} = 0.85 \quad 85\% \text{ Markup.}$$

$$\text{b) } \frac{\text{Markup}}{\text{Org.}} = \frac{6.50}{7.00} = 0.93$$

$$93\% \text{ Markup.}$$

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?



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

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?



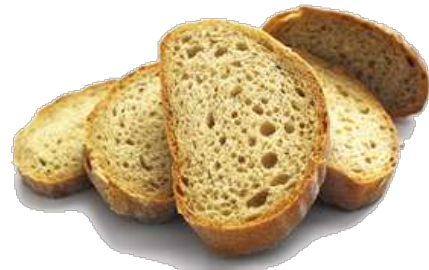
Let $x = \text{Oil}$

$$\begin{array}{r} \text{Gas} \\ \hline \text{Oil} \\ \hline 5 \text{ L} \quad 0.5 \text{ L} \\ \hline 2 \text{ L} \quad x \end{array}$$

$$\frac{5x}{5} = \frac{1}{5} \quad x = 0.2 \text{ L of Oil}$$

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?

$$\begin{array}{l} 3 : 1 \\ \text{White} \quad \text{WW} \\ 300 : 100 \end{array} \quad \begin{array}{l} \text{Let} = \text{White} \\ \frac{\text{White}}{\text{WWheat}} \end{array}$$



$$\begin{array}{l} \frac{3x}{1} = \frac{x}{100} \\ x = 300 \end{array}$$

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?~~



Let $X = \text{CAD}$

a) $\frac{1}{\text{rate}} = \frac{\text{FOR}}{\text{CAD.}}$

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

$X = 433.90 \text{ CAD}$



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

- How much would a customer pay in Nova Scotia, where they are taxed 15%?
- How much would a customer pay in New Brunswick, where they are taxed 13%?
- How much do you save buying it in New Brunswick?

d) How much would it be if a province charged 5% GST and 10% PST.

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

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

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

$$d) 600 \times 1.05 = \underline{\underline{630}}$$

$$630 \times 1.10 = 693.00$$

If Jennifer purchased 5,678 Australian dollars for \$6,259.43 CAD, what was the bank's selling rate?

$$\frac{1}{\text{rate}} = \frac{\text{FOR}}{\text{CAD}}$$

$$\frac{1 \rightarrow 5678}{X \rightarrow 6259.43}$$

$$\frac{5678X}{5678} = \frac{6259.43}{5678}$$
$$X = 1.1024$$

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?



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?

New Price

$$29.99 \times 0.70 = 20.99$$

$$39.99 \times 0.70 = 27.99$$

$$79.95 \times 0.70 = 55.97$$



$$5 \text{ Helmets} - 5 \times 20.99 = \$104.95$$

$$4 \text{ shoulders pads} - 4 \times 27.99 = \$111.96$$

$$6 \text{ hockey sticks} - 6 \times 55.97 = \$335.82$$

$$\$552.72$$

Recipe #1
3 cups of concentrate
7 cups of water



18 cups

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 =
of water =

Total # =



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.

Batch Total

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

$$\text{Total \#} = 10$$

Total RatioLet x = concentrate

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

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

$$\rightarrow 10x = 24$$

$$\rightarrow x = 2.4$$

Recipe #1

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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.

Batch Total

of concentrate = 3
of water = 7

Total # = 10**Total Ratio**Let x = concentrate

of concentrate
Total

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

$$10x = 24$$

$$x = 2.4$$

2.4 Cups of Concentrate**Water = Total # - Concentrate**

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

5.6 Cups of Water!!!!

Review

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

Chair cost 150.00. It is on sale for 40% off. How much would the chair cost with 13% tax

$$\begin{array}{l|l} 150 \times 0.40 = 60 & 150 \times 0.60 = 90 \\ 150 - 60 = 90 & \end{array}$$

$$90 \times 1.13 = 101.70$$