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?

a)

$$\frac{12}{6.50\ (\text{org.})} = 1.85 \qquad 85\%$$

12-6.50

$$\frac{5.50}{6.50\ (\text{org.})} = 0.85 \qquad 85\%$$

(b)

$$\frac{6.50}{7.00} = 0.928 = 93\%$$

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)

$$\frac{\text{Price}}{\text{Unit}}$$

$$\frac{15.00}{20}$$

$= \$0.75/\text{song}$

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? (proportion/ratios)

Gas / Oil

Let x = oil

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

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

$x = 0.2$ 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
Whole Wheat

$\frac{3}{1} = \frac{x}{100}$

$x = 300$ white bread

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

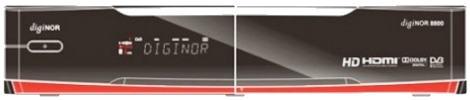
Bank Buying Rate = 0.083443
Bank Selling Rate = 0.108443

a) $\frac{1}{\text{rate}} = \frac{\text{for.}}{\text{Can.}}$

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

$x = 433.90$

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) $600 \times 1.15 = \$690$

(b) $600 \times 1.13 = 678$

(c) $18

(d) $600 \times 1.05 = 630$, $630 \times 1.10 = 693.00$ $3.00

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?

Helmet → 29.99 × 0.70 = 20.99

20.99 × 5 = $104.95

Shoulder pads → 39.99 0.70 = 27.99

27.99 × 4 = $111.96

Hockey Sticks → 79.95 × 0.70 = $55.97

55.97 × 6 = 335.79

104.95
+ 111.96
335.79
$552.70

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

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

# of concentrate = 3
# of water = 7

Total # = 10

Total Ratio

Let x = concentrate

$$\frac{\text{\# of concentrate}}{\text{Total}} = \frac{3}{10} = \frac{x}{8}$$

→ **10x = 24**

→ **x = 2.4**

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

# of concentrate = 3
# of water = 7

Total # = 10

Total Ratio

Let x = concentrate

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

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

$$10x = 24$$

$$x = 2.4$$

2.4 Cups of Concentrate

Water = Total # - Concentrate

Water = 8 - 2.4

Water = 5.6

Review

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