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?

a) $12.00 - 6.50 = 5.50$ ← Markup

$$\frac{\text{Markup}}{\text{Org.}} = \frac{5.50}{6.50} = 0.85$$

85% Markup.

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

93% 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?

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

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 = Oil

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

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

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

$X = 0.2$ 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?

3 : 1

WB WWB

x : 100

Let x = white

$\frac{WW}{White}$

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

$x = 300$

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?

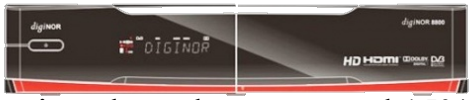
X = CAD

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

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

$X = \$433.90$ CAD

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) PEI where they have 5% GST 10% PST how much?

a) $600 \times 1.15 = \$690.00$

b) $600 \times 1.13 = \$678.00$

c) $690 - 678 = \$12$

d) $600 \times 1.05 = 630$
$630 \times 1.10 = 693.00$

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

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

$$\frac{1}{x} = \frac{5678}{6259.43}$$

$$\frac{5678x}{5678} = \frac{6259.43}{5678}$$

$$x = 1.1024$$

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 x 0.70 = 20.99

39.99 x 0.70 = 27.99

79.95 x 0.70 = 55.97

5 Helmets - 5 x 20.99 = $104.95

4 shoulders pads - 4 x 27.99 = $111.96

6 hockey sticks - 6 x 55.97 = $335.82

$552.72

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

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7 cups of water

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Batch Total

# of concentrate = 3
# of water = 7

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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

5.6 Cups of Water!!!!

Review

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