

## Review

$$\begin{aligned}\textcircled{1} \text{ Percent Markup} &= \frac{\text{Markup}}{\text{Original}} \\ &= \frac{\$11.00}{\$5.00} \\ &= 2.2 \\ &= 220\%\end{aligned}$$

② Let  $x$  = amount oil.

$\frac{\text{gas}}{\text{oil}}$

$$\frac{25}{15} = \frac{3}{x}$$

$$\frac{25x}{25} = \frac{4.5}{25}$$

$$x = 0.18 \text{ L of oil}$$

Review:

$$\textcircled{3} \quad \text{(i) Markup: } \overset{100\%}{+11\%}$$

$$\quad \$6.49 \times 1.11$$

$$\quad = \$7.20$$

$$\text{(ii) Tax: } \overset{100\%}{+5\%}$$

$$\quad \$7.20 \times 1.05$$

$$\quad = \boxed{\$7.56}$$

$$\textcircled{4} \quad \text{Retail Price} = 617.40$$

$$\text{original Price} = \underline{420.00}$$

$$\text{Markup} = 617.40 - 420.00 = \underline{197.40}$$

$$\text{Percent Markup} = \frac{\text{Markup}}{\text{Original}}$$

$$= \frac{197.40}{420.00}$$

$$= 0.47$$

$$= \boxed{47\%}$$

Review

$$\textcircled{5} \text{ (i) Discount } \frac{100\%}{-15\%} \frac{85\%}{}$$

$$\$1439.00 \times 0.85$$

$$= \$1223.15$$

$$\text{(ii) Tax } \frac{100\%}{+13\%} \frac{113\%}{}$$

$$\$1223.15 \times 1.13$$

$$= \$1382.16$$

$$\textcircled{6} \text{ Let } x = \$\text{CAD}$$

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

$$\frac{1}{1.56} = \frac{1025}{x}$$

$$x = \$1599$$

## Review

① Let  $x$  = the selling rate

$$\frac{1}{\text{rate}} = \frac{\text{For (Baht)}}{\text{CAD}}$$

$$\frac{1}{x} = \frac{10820}{380}$$

$$\frac{10820x}{10820} = \frac{380}{10820}$$

$$x = 0.035120147$$

⑧ Let  $x$  = the buying rate

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

$$\frac{1}{x} = \frac{10750 \text{ (Singapore)}}{\$7925.76}$$

$$\frac{10750}{10750} x = \frac{7925.76}{10750}$$

$$x = 0.73728$$

Review!

⑨ Bank is "selling" you shillings

Let  $x =$  shillings

$$\frac{1}{\text{selling rate}} = \frac{\text{For}}{\text{CAD}}$$

$$\frac{1}{0.017300} = \frac{x}{150}$$

$$\frac{0.017300x}{0.017300} = \frac{150}{0.017300}$$

$$x = 8670.52 \text{ shillings}$$

Review:

⑬ The bank is "buying" reals from you

Let  $x = \$CAD$

$\frac{1}{\text{buying rate}} = \frac{\text{For}}{\text{CAD}}$

$$\frac{1}{0.534900} = \frac{150}{x}$$

$$x = \$80.24$$

## Review

⑩(i) Bank is "selling"

Let  $x =$  rupees

$$\frac{1}{\text{selling rate}} = \frac{\text{For}}{\text{CAD}}$$

$$\frac{1}{0.02532} = \frac{x}{75}$$

$$\frac{0.02532x}{0.02532} = \frac{75}{0.02532}$$

$$x = \underline{2962.09}$$

Bank is "buying"

Let  $x =$  \$CAD

$$\frac{1}{\text{buying rate}} = \frac{\text{For}}{\text{CAD}}$$

$$\frac{1}{0.02087} = \frac{2962.09}{x}$$

$$x = \underline{\underline{\$61.82}}$$

you would lose:

\$75.00

- \$61.82

\$13.18



## Review

(12) (i) T-Shirts:

$$2 \times \$17.50 = \$35.00$$

$$\$35.00 \times 1.15 = \underline{\$40.25}$$

↑  
15% markup

(ii) Shoes:

$$2 \times \$77.50 = \$155.00$$

$$\$155.00 \times 1.65 = \underline{\$255.75}$$

↑  
65% markup

(iii) Jeans:

$$4 \times \$45.00 = \$180.00$$

$$\$180.00 \times 1.3 = \$234.00$$

↑  
30% markup

(iv) Total cost before tax:

$$40.25 + 255.75 + 234.00$$

$$= \boxed{\$530.00}$$

## Review

$$\textcircled{13} \quad a) \quad \frac{1}{0.6578} = \frac{x}{1025}$$

$$0.6578x = 1025$$

$$x = \$1558.22$$

$$b) \quad \frac{1}{1.5} = \frac{x}{1025}$$

$$1.5x = 1025$$

$$x = \$683.33$$

$$c) \quad \frac{1}{1.6877} = \frac{x}{1025}$$

$$1.6877x = 1025$$

$$x = \$607.34$$

Review:

⑭ a)  $\frac{\text{cost}}{\text{weight}}$

$$\frac{10.99}{4} = \frac{43.96}{x}$$

$$\frac{10.99x}{10.99} = \frac{175.84}{10.99}$$

$$x = 16 \text{ lbs}$$

b)  $\frac{\text{cost}}{\text{weight}}$

$$\frac{10.99}{4} = \frac{x}{30}$$

$$\frac{4x}{4} = \frac{351.68}{4}$$

$$x = \$87.92$$

⑮ Ginger Ale = 7  
Grenadine = 2  
Total = 9

i) Let  $x$  = Ginger Ale  
 $\frac{\text{ginger ale}}{\text{total}}$

$$\frac{7}{9} = \frac{x}{15}$$

$$\frac{9x}{9} = \frac{105}{9}$$

$$x = 11.67 \text{ ounces}$$

ii) Let  $y$  = Grenadine  
 $y = 15 - 11.67$

$$y = 3.33 \text{ ounces}$$

1.  $7 \times 90 \text{ euros} = 630 \text{ euros.}$

Let  $x = \text{CAD.}$

$$\frac{\text{L}}{\text{rate}} = \frac{\text{FOR}}{\text{CAD.}}$$

$$\frac{1}{1.64876} = \frac{630}{x}$$

$$x = \$1038.72$$

2. Let  $x = \text{CAD.}$

$$\frac{\text{L}}{\text{rate}} = \frac{\text{FOR}}{\text{CAD.}}$$

$$\frac{1}{0.000774} = \frac{33500000}{x}$$

$$x = \$25,929$$

2. Let  $x = \text{CAD}$ .

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

$$\frac{1}{0.000774} = \frac{33500000}{x}$$

$$x = \$25,929$$

3. a) Let  $x = \text{Pesos}$ .

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

$$\frac{1}{0.0927} = \frac{x}{1250}$$

$$\frac{0.0927x}{0.0927} = \frac{1250}{0.0927}$$

$$x = 13484.36$$

b) Let  $X =$  Philippines pesos.

$$\frac{L}{\text{rate}} = \frac{\text{For}}{\text{CAD}}$$

$$\frac{1}{0.02839} \times X = 1250$$

$$0.02839X = 1250$$

$$X = 44,029.59 \text{ pesos.}$$

c) Let  $X =$  Riyal.

$$\frac{L}{\text{rate}} = \frac{\text{For}}{\text{CAD.}}$$

$$\frac{1}{0.3338} \times X = 1250$$

$$0.3338X = 1250$$

$$X = 3,744.76 \text{ riyals}$$

$$0.3338 X = 1250$$

$$0.3338 X = 1250$$

$$X = 3744.76 \text{ riyals}$$

4. a) Let  $x = \text{real}$ .

$$\frac{1}{\text{rate}} = \frac{\text{For}}{\text{CAD.}}$$

$$\frac{1}{0.6578} \Rightarrow \frac{x}{1025}$$

$$0.6578 X = 1025$$

$$X = 1558.22 \text{ rials}$$

(b) Let  $x =$  dollars

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

$$\frac{1}{1.500} \rightarrow \frac{x}{1025}$$

$$1.5x = 1025$$

$$x = 683.33 \text{ dollars}$$

(c) Let  $x =$  euros

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

$$\frac{1}{1.6877} \rightarrow \frac{x}{1025}$$

$$1.6877x = 1025$$

$$x = 607.34 \text{ euros}$$



$$1.6877x = 1025.$$

$$x = 607.34 \text{ euros.}$$

#5. a)

Let  $x = \text{CAD}$ .

$\frac{\text{L}}{\text{rate}} = \frac{\text{EUR}}{\text{CAD}}$

$$\frac{\text{L}}{1.8413} = \frac{497.94}{x}$$

$$x = \$916.86$$

No =  $\text{P}$        $1225 - 916.86 = \$308.14$

(b) Let  $x = \text{pounds}$ .

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

$$\frac{1}{1.9681} \Rightarrow \frac{x}{308.14}$$

$$\frac{1.9681x}{1.9681} = \frac{308.14}{1.9681}$$

$$x = 156.57 \text{ pounds.}$$

$$x = 156.57 \text{ pounds.}$$

b.

Let  $x = \text{yen.}$ 

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

$$\frac{1}{0.012579} = \frac{x}{1100}$$

$$\frac{0.012579x}{0.012579} = \frac{1100}{0.012579}$$

$$x = 87,447.33$$

SPENT  
YENS.

$$87,447.33 - 34,979 = 52,468.33.$$

Let  $x =$  won.

$$\frac{\text{1}}{\text{rate}} = \frac{\text{For}}{\text{South Korea}}$$

$$\frac{1}{14.0152} = \frac{52,468.33}{x}$$

$$x = 735,354.14$$

Spent  $735,354.14 - 551,512. = 183,842.14$

Let  $x =$  CAD.

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

$$\frac{1}{0.000774} = \frac{183,842.14}{x}$$

$$x = 142.29.$$