Unit #1 - Review

1. If 5 cm on a map represents 5 km of actual ground, how many centimetres would 25 km of actual ground be on the map?

2. Ned is a pool cleaner. He offers a deal in which he charges $1000.00 to clean your pool 20 times. How much money do you save per cleaning using the deal if it regularly costs $55.00 for one cleaning?

3. Because the cost of ingredients has gone up, Anders has decided to increase the cost of food at his Edmonton café by 11%. How much will a customer pay for a sandwich that used to cost $6.49? Include 5% GST.

4. The retail price of a snowblower is $617.40. The wholesale price was $420.00. What is the percent markup?

5. Calculate the sale price of a table set that regularly sells for $1439.00 and is on sale for 15% off.

6. The bank buying rate for 1 euro is $1.56 CAD. If you have 1025 euros, how many Canadian dollars can you exchange them for?

7. If Linda purchased 10 820 Thailand bhat for $380.00 CAD, what was the bank's selling rate for one bhat?

8. If Cody sold 10 750 Singapore dollars for $7925.76 CAD, what was the bank's buying rate for one Singapore dollar?

9. The bank's selling rate for Kenyan shillings is 0.017300 and the buying rate is 0.012510. How many shillings would you get for $150.00 CAD?

8. If Cody sold 10 750 Singapore dollars for $7925.76 CAD, what was the bank's buying rate for one Singapo
dollar ?

9. The bank's selling rate for Kenyan shillings is 0.017300 and the buying rate is 0.012510. How many shillings would you get for $150.00 CAD?

10. The bank's selling rate for Brazilian reals is 0.697000 and the buying rate is 0.534900. How many Canadian dollars would you get for 150 reals?

11. If the selling rate of Indian rupees is 0.02532 and the buying rate is 0.02087, how much money would you lose if you exchanged $75.00 CAD for rupees and then converted them back to CAD on the same day?

12. Use the following chart to calculate the cost of buying 2 T-shirts, 2 pairs of shoes, and 4 pairs of jeans.

Clothing Article	Wholesale Price	Markup
T-Shirt	$17.50	15%
Shoes	$77.50	65%
Jeans	$45.00	30%

13. Using the following exchange rates, calculate how much foreign currency you would receive for $1025.00 CAD.
    a) 1 Brazilian real (BRL) is worth $0.6578 CAD.
    b) 1 Cayman Islands dollar (KYD) is worth $1.500 CAD.
    c) 1 euro is worth $1.6877 CAD.

14. A restaurant buys a 4-lb jar of peanut butter for $10.99.
    a) The restaurant bought $43.96 worth of peanut butter. How many pounds of peanut butter were purchased?
    b) How much would it cost the restaurant to buy 32 lb of peanut butter?

1. $\dfrac{cm}{Km}$　　　　　$\dfrac{5}{5} = \dfrac{x}{25}$

　　　　　　　　　$5x = 125$

　　　　　　　　　　$x = 25$

2. $\dfrac{1000}{20} = \$50$　　　　Regular $55

　　　　　You save $5.

3. $\begin{array}{r} 6.49 \\ \times\, 1.11 \;(markup) \\ \hline 7.20 \end{array}$　　　$\begin{array}{r} 7.20 \\ \times\, 1.05 \;(Tax) \\ \hline \$7.56 \end{array}$

4. $\begin{array}{r} \$617.40 \\ -420 \\ \hline 197.40 \end{array}$　　　$\dfrac{\$197.40}{420} = 0.47$ or 47%

7.20 $7.56

4. $617.40 $197.40 = 0.47   or 47%
      −420   420
      197.40

5. $1439.00 $1439
      × 0.15 (15% off)   − 215.85
      $215.85 discount $1223.15 sale price

6.   euro =   1   = 1025
      CAD   1.56   x
              x = $1599

7. bhat
   CAD

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

   $10820x = 380$

   $x = 0.03512$

8. Singapore $
   CAD

   $$\frac{10750}{7925.76} = \frac{1}{x}$$

   $10750x = 7925.76$

   $x = 0.73728$

9. Bank is selling shillings to me.

   Shillings
   CAD

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

   $0.017300x = 150$

   $x = 8670.52$

9. Bank is selling shillings to me.

$\dfrac{Shillings}{CAD}$ $\dfrac{1}{0.017300} = \dfrac{x}{150}$

$0.017300\, x = 150$

$x = 8670.52$

10. The Bank is buying reals from me

$\dfrac{reals}{CAD}$ $\dfrac{1}{0.534900} = \dfrac{150}{x}$

$x = 80.235$

11. The bank is <u>selling</u> rupees to me.

$\dfrac{\text{rupees}}{\text{CAD}}$ $\dfrac{1}{0.02532} = \dfrac{x}{75}$

$0.02532\,x = 75$

$x = 2962.085$

The bank is <u>buying</u> rupees from me.

$\dfrac{\text{rupees}}{\text{CAD}}$ $\dfrac{1}{0.02087} = \dfrac{2962.085}{x}$

$x = 61.82$

START $ 75
         −61.82
        $ 13.18 (LOST)

12.

T-shirts	Shoes	Jeans

$17.50
× 1.15 (15% markup)
$20.13
× 2 (T-shirts)
$40.26

$77.50
× 1.65 (65% markup)
$127.88
× 2 pair of shoes
$255.76

$45.00
× 1.30 (30% markup)
$58.50
× 4 pairs of jeans
$234

$40.26 + $255.76 + 234

$530.02

13. $\$ 1025$

a) real
$\dfrac{\text{CAD}}{0.6578} = \dfrac{x}{1025}$

$0.6578x = 1025$

$x = 1558.22$

b) Cayman dollar
$\dfrac{\text{CAD}}{1.500} = \dfrac{x}{1025}$

$1.500x = 1025$

$x = 683.33$

c) Euro
$\dfrac{\text{CAD}}{1.6877} = \dfrac{x}{1025}$

$1.6877x = 1025$

$x = 607.34$

14.   4 lb JAR $10.99

$\dfrac{Lbs}{\$}$ a) $\dfrac{4 lbs}{10.99} = \dfrac{x}{43.96}$ b) $\dfrac{4}{10.99} = \dfrac{32}{x}$

$$10.99x = 175.84$$
$$x = 16\ lbs$$

        or
       4 JARS

$$4x = 351.68$$
$$x = 87.92$$

$87.92 for 32 LBS
of peanut butter.

Answers:

1. 25 cm
2. $5
3. $7.56
4. 47%
5. $1223.15

6. $1599
7. 0.03512
8. 0.73728
9. 8670.52
10. 80.235

11. Lost 13.18
12. $530.02
13. a) 1558.22
    b) 683.33
    c) 607.34

14. a) 16 lbs
    or 4 Jars
    b) $87.92