

GMF 10
Chapter 1 – Review

Name: _____

Part A - Multiple Choice

15% Tax

- 1) Frank runs the 1500 m race in 4 minutes and 40 seconds. If her pace stays the same, how long will it take her to run 5km? Answer rounded to 2 decimal places.
 (a) 15.56 min b) 17.12 min c) 12.45 min d) 18.67 min
 $\frac{1.5\text{km}}{4.66\text{min}} = \frac{5\text{km}}{x}$
- 2) If 30 calculators cost \$174.00. How much does 1 calculator cost?
 a) \$5.17 b) 9.28 c) \$2.90 (d) \$5.80
- 3) What is the total cost of a cordless drill that is being sold for \$110.74 in Wolfville, N.S (15% HST), plus tax?
 a) \$125.14 (b) \$127.35 c) \$126.24 d) \$94.13
- 4) Calculate the cost of buying 3 new paperback books for 1/3 off. The regular price of one book is \$10.49. *Don't include taxes.*
 a) \$15.73 b) \$6.99 (c) \$20.98 d) \$6.92
 $10.49 \times \frac{2}{3} \times 3$
- 5) The regular price of honey ham at a grocery deli is \$2.39/100g. If the ham is on sale for 25% off, what is the cost of 275g?
 a) \$6.16 b) \$3.70 c) \$6.23 (d) \$4.93
 $\frac{2.39}{100\text{g}} \times 0.75 = \frac{1.79}{100\text{g}} = \frac{x}{275}$
- 6) What is the percent mark-up if the wholesale price for a sweater is \$15.50 and the retail price is \$24.99?
 a) 62% (b) 61% c) 38% d) 28%
 $\text{Mark up} = \frac{24.99 - 15.50}{15.50}$

Part B:

- 1) Some computer monitors have an aspect ratio of 4:3. This means that for every 4 inches of width, the monitor is 3 inches high. Calculate the width of a monitor that is 24 inches high.

$$\frac{4\text{W}}{3\text{H}} = \frac{x}{24} \quad \frac{3x}{3} = \frac{96}{3} \quad \boxed{x = 32 \text{ in}}$$

- 2) If a pizza vendor decides to increase his price/slice by 35%, what will his new price be if he now charges \$3.50/slice?

$$3.50 \times 1.35 = 4.73 / \text{slice}$$

- 3) It costs \$2.80 for a dozen eggs. Write as a unit rate.

$$\frac{\$2.80}{12 \text{ eggs}} = \$0.23 / \text{egg}$$

- 4) A cement masonry apprentice earns \$375.00 for 16 hours worked. Write this as a unit rate.

$$\frac{\$375}{16 \text{ hr.}} = \$23.44 / \text{hr}$$

- 5) One type of fabric costs \$26.34 for 3 m of fabric and another one costs \$42.25 for 5 m of fabric. Which fabric has the lower cost per metre?

$$\frac{\$26.34}{3\text{m}} = \$8.78 / \text{m}$$

$$\frac{\$42.25}{5\text{m}} = \$8.45 / \text{m}$$

this one is lower

- 6) The price of a new 3D TV is \$2889.00. Calculate the cost of the TV purchase in Summerside PEI (14% HST) including tax.

$$2889 \times 1.14 = \$3293.46$$

$$3293.46 \times 1.05 = 3322.36$$

15%

- 7) How many Japanese Yen can you buy with \$525?

$$\$525 \times \frac{1 \text{ yen}}{0.00855 \text{ CAD}}$$

Selling

$$53272.45$$

- 8) How many Canadian dollars will you receive if you sell the bank 55 N. Ireland pounds?

Buying

$$55 \text{ pounds} \times 1.996146 \text{ CAD}$$

1 pounds

$$109.79$$

Part C: Show all your work.

- 1) Three grocery stores have advertised their price for packages of pork chops:

Store A	\$3.25/500g
Store B	\$5.85/Kg
Store C	\$11.38/2 kg

$$\begin{aligned} & \$0.0065/9 \\ & \$0.0058/9 \\ & \$0.0057/9 \end{aligned}$$

- a) What is the unit price of pork chops at each store, per gram? Give your answer to 4 decimal places.
b) What is the cheapest way to purchase 3.5 kg without any wasted meat? How much is it? —

1 pack from each store

$$\begin{aligned} & 3.25 \\ & 5.85 \\ & 11.38 \\ & \hline & 20.48 \end{aligned}$$

- 2) Janice sells sports equipment in Nfld (13% HST). She is offering a sale of 40% off all items in the store. Helmets regularly sell for \$19.99 each, 3 tennis balls for \$2.39, and basketballs for \$34.99 each. How much will it cost to buy 4 helmets, 9 tennis balls, and 5 basketballs? Include tax.

$$19.99 \times 4 = 79.96$$

$$2.39 \times 3 = 7.17$$

$$34.99 \times 5 = 174.95$$

$$262.08 \times 0.6 = 157.25$$

- 3) A restaurant buys a 4 lb jar of peanut butter for \$10.99.

$$\times 1.15$$

$$= \$180.84$$

- a) The restaurant bought \$43.96 worth of peanut butter. How many pounds of peanut butter were purchased?

$$4 \text{ jars} \times 4 \text{ lbs} = 16 \text{ lbs}$$

- b) How much would it cost the restaurant to buy 30 lb of peanut butter?

$$\text{Needs } 8 \text{ jars} = 87.92$$

- 4) During a Boxing Day promotion in Saint John, NB, Krazy Krazy Televisions advertises a 42" flat-screen television for \$300.00 off and they will "pay the HST", while Too Good To Be True Electronics is discounting the same television by 30%. If the original price of the television at both stores is \$1299.99, which store offers a better deal?

$$\begin{aligned} & 1299.99 \\ & - 300.00 \\ & \hline & 999.99 \end{aligned}$$

$$1299.99 \times 0.70 = 909.99$$

$$\times 1.15 = \$1046.49$$

- 5) Quinn travelled to Milan for a weekend to purchase fabric for her children's clothing business. She bought 15 metres of hand-painted designer cotton for €28.92/m and 40 metres of reversible fleece for €9.95/m. How much did her fabric cost in total in Canadian dollars?

$$28.92 \times 15 = 433.80$$

$$9.95 \times 40 = 398.00$$

$$€831.80 \text{ convert to CAD}$$

$$831.80 \times 1.644814 = \$1368.16 \text{ CAN}$$

1€