



Multiple Choice (15 Marks)

Shade the letter corresponding to the correct solution on the scantron sheet that is provided.

1. Mr. Watters can text 85 words per minute. How long will it take him to text 2800 words? Round to the nearest minute.
 - a. 27 minutes
 - b. 41 minutes
 - c. 33 minutes
 - d. 40 minutes

2. A 2-stroke dirt bike requires 15 L of gas to be mixed with 4 L of oil. How much oil do you need to fill up your dirt bike if you use 24 L of gas?
 - a. 90 L of oil
 - b. 7.68 L of oil
 - c. 2.5 L of oil
 - d. 6.4 L of oil

3. To mix juice from concentrate, you must use a ratio of 6 cups of water to 3 cups of concentrate. If you want to make 10 cups of juice, how much concentrate and water do you need? Round to 1 decimal place.
 - a. 6.7 cups of water, 3.3 cups of concentrate
 - b. 0.6 cups of concentrate, 9.4 cups of water
 - c. 2.0 cups of water, 8.0 cups of concentrate
 - d. 0.4 cups of water, 9.6 cups of concentrate

4. It cost Mick \$135.75 to buy 15 albums from an online music store. How much did 1 album cost?
 - a. \$14.48
 - b. \$1.66
 - c. \$4.53
 - d. \$9.05

5. 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?
 - a. \$100.00
 - b. \$5.00
 - c. \$50.00
 - d. \$10.00

6. If 3 kg of tomatoes costs \$10.20, how much will you pay for 8 kg?
 - a. \$27.20
 - b. \$32.64
 - c. \$21.76
 - d. \$27.70

7. Which of the following packages of deli meats has the **lowest** unit price?
 - i) \$1.89/100 g
 - ii) \$4.80/250 g
 - iii) \$5.97/300 g
 - iv) \$3.34/157 g
 - a. i)
 - b. ii)
 - c. iii)
 - d. iv)

8. Anna buys a LCD television for \$850. Calculate cost **including the tax** if she buys the TV in **British Columbia where they pay 5% GST followed by 7 % PST**.
 - a. \$954.98
 - b. \$104.98
 - c. \$952.00
 - d. \$102.00

9. A video game costs \$48.99. What is the **total price in New Brunswick** when you add HST?

- a. \$55.55
- b. \$55.36
- c. \$56.34
- d. \$6.37

10. Mr. Stewart wants to buy Mrs. Stewart a new leather jacket. Three stores in Miramichi have sales on the same jacket. The jacket regularly costs \$300. The three stores are having the following sales and include **HST**...

Store A	All jackets 15% off!
Store B	\$50 off any jackets over \$250!
Store C	Don't pay the tax!

Which store is offering the **best** deal?

- a. Store A
- b. Store B
- c. Store C
- d. All the same discount

11. Calculate the **sale price** of a table set that regularly sells for \$1439.00 and is on sale for 40% off.

- a. \$1208.76
- b. \$690.72
- c. \$863.40
- d. \$2014.60

12. A DVD player is regularly priced at \$139.00. Its sale price is \$104.25. What is the discount rate, as a percent?

REMEMBER: Rate of Discount = $\frac{\text{Discount}}{\text{Reg. Price}} \times 100$ %

- a. 25%
- b. 95%
- c. 20%
- d. 30%

13. Calculate the cost of buying 3 new paperback books for $\frac{1}{3}$ 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

14. The bank's selling rate for Czech Republic koruna is 0.06238. How many koruna will you get for \$150.00 CAD?

- a. 2404.62 koruna
- b. 31.19 koruna
- c. 6.26 koruna
- d. 39 968.03 koruna

15. 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?

- a. \$1758.90
- b. \$1599.00
- c. \$1439.10
- d. \$657.05

Open Response (25 Marks)

Show ALL your work in the space provided. Put a box around your final solution and be sure to include units!

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.

[2]

Width = _____

2. Sarah is a nurse. She needs to measure and administer the correct dose of medicine to her patients. One medication requires 125 mg of medicine to be dissolved into 300 mL of water. If the patient requires a dose of 500 mg of medicine, how much water is needed? Round to the nearest millilitre. [2]

Amount of Water = _____

3. Which is a better buy? How much are you saving per ounce? [3]
Supervalu: 8 ounces of cheese for \$5.63 or Sobeys's: 12 ounces of cheese for \$7.87?

Better Buy: _____

Money Saved Per Ounce: \$ _____

4. Anita Nucar lives in Amherst, N.S. She is in need of a new car and has narrowed it down to two dealerships...
Amherst Toyota: \$25 995 + HST or Moncton Honda: \$26 425 + HST
Knowing that HST is now **different** in Nova Scotia and New Brunswick, which is the better price and how much is she saving? [3]

Better Price: _____

Money Saved: \$ _____

5. Richard is very confident in his ability to paint houses quickly and properly. He offers a 20% discount on a job if he goes over 40 hours. He regularly charges \$18.50/hour to paint a house. How much will he charge to paint a house if it takes him 56 hours? **Do not include the tax!** [3]

Cost = \$ _____

6. Mr. Cameron has collected 250 euros and 5500 pounds in his recent trips. How much is that worth in \$CAD? [4]

Canadian Bank Foreign Exchange Rates for Buying and Selling			
Country	Currency	Buying Rate	Selling Rate
France	Euro	1.580814	1.644814
Egypt	Pound	0.159300	0.217300

Total CAD = \$ _____

7. Using the following exchange rates, calculate how much foreign currency you would receive for \$1025.00 CAD. [4]

a) 1 Brazilian real (BRL) is worth \$0.6578 CAD.

b) 1 Cayman Islands dollar (KYD) is worth \$1.500 CAD.

8. Mr. Jamieson is having a Xmas sale at the school store all next week. Use the following table to calculate the cost of buying 2 sweaters, 4 hats, and 10 T-Shirts (for your JMH friends). Mr. Wood has also agreed that next week there will be **NO HST** on any purchases of Pulamoo gear...GREAT SALE! [4]

Pulamoo Clothing Article	Regular Price	Discount
MV Sweater	\$35.00	15% off all sweaters!
MV Hat	\$20.00	Buy one, get one 1/2 price!
'The Good/Bad/Ugly' T-shirt	\$12.00	Buy one, get one free!

Cost = \$ _____