

Mathematics 1202
Chapter 1 TEST #1B

Directions: Do all questions on this paper. Be sure to show all workings as full marks will not be given for answers only.

Use the following conversions:

1 lb. = 16 oz.

1 kg = 2.2 lbs.

$$F = \frac{9}{5}C + 32$$

1 oz \approx 28.35 g

1 lb. = 0.454 kg

1 ml \approx 0.0338 fl oz.

1 cup = 8 oz.

1 quart = 4 cups

1 gallon \approx 3.8 L

1 cup \approx 0.24 L

1 cup \approx 250 ml

$$C = \frac{5}{9}(F - 32)$$

1 US gallon \approx 3.8 litres.

Canadian \$		
	CAD \$1	In Cad\$
US Dollar	0.991051	1.00903
Euro	0.727323	1.37490
Russian Ruble	30.979	0.03228
British Pound	0.58	1.7241

PART I: Circle the letter of the best answer. (20%)

- A 48-bottles of water costs \$5.76. What is the **unit price**?
A) \$0.12
B) \$0.63
C) \$42.24
D) \$276.48
- A 224 g bag of flour was on sale for \$4.48. How much would you have to pay for 390 g of flour?
A) \$0.02
B) \$0.50
C) \$7.82
D) \$11.48
- A package of chocolate bars was reduced from \$3.99 to \$2.47. What is the **percent of decrease** in the price?
A) 38%
B) 52%
C) 62%
D) 152%
- Casey is travelling to Australia. \$1 CAD is worth 0.8531 AUD. How many **Australian dollars** will she receive for \$600 CAD?
A) 85
B) 142
C) 512
D) 703
- A cake recipe says to bake at 425°F. Your oven only shows temperatures in degrees **Celsius**. At what temperature should you set your oven?
A) 204
B) 218
C) 797
D) 822

PART II:

1. Compare the **unit prices** of the three brands of ketchup. Which is the best buy? Explain your reasoning.

(10%)

Brand A



38 oz
\$2.66

Brand B



3.1 lbs.
\$3.22

Brand C



50 oz
\$3.75

2. Jack lives in Ottawa, Ontario, Canada. His uncle lives in Russia. For his birthday, Jack received 30 rubles from his uncle. How many Canadian dollars can he buy with his birthday money?

(6%)

3. Kelly is making chicken burgers for 15 people. His recipe suggests about 5 oz of chicken per person. At the grocery store, the weight of chicken is labelled in grams. How much chicken (in grams) should Kelly buy?

(6%)

4. In 1992, the temperature in St. John's, NL rose from -7°C to 15°C in just one day. What were the temperatures in degrees Fahrenheit?

(8%)

5. Hannah bought 54 boxes of ceiling tiles that weigh 35 pounds **each**. How much is this in kilograms?

(6%)

6. Determine which is the better buy. Show your work.

310 g package of rice for \$7.75 or 400 g package for \$8.40

(6%)

7. Convert each of the following: **Show your work.**

(25%)

a) 84 lbs. to kilograms

b) 73 oz. to grams

c) 123.6 gallons to litres

d) 545 ounces to millilitres

e) 800 ml to cups

8. a) A package of laundry detergent goes up from \$8.49 to \$10.15. What is the percent of increase?

(5%)

- b) Kimberley is going to New York for **5** nights. The hotel costs \$146 **US** per night. She plans to see two Broadway shows which cost \$90 **US** and \$115 **US**. She has \$1200 **CAD** to spend on the hotel and shows. That day, **US** \$1 equals about **CAD** \$1.016. How much will Kimberley have left in **Canadian** dollars?

(8%)