

Pretest DB
MTH-P023
Information

The use of the calculator is allowed

Conversions:

1h=60 min
1min=60 sec

1 in=2.54 cm
1km=1000m
1m=100 cm
1lb= 0.45 kg

Scale: $\frac{\text{Diagram}}{\text{real}} = \frac{D}{R}$

Formulas: $s = \frac{d}{t}$ $t = \frac{d}{s}$ $d = s \times t$

s= speed t= time d= distance

Taxes: **GST = 5%**

QST= 9.975%

(3points)

1. Write the following numbers in English:

- 1980: -----
- 35: -----
- 421: -----

(3points)

1. Please fill in this cheque using the following information:

- Date: 2-October-2020
- Pay to Lime Cellular
- Amount to pay: \$ 104.00

2815

Date _____

Pay to the Order of _____ \$ _____

_____ Dollars

Memo: _____

⑆ 85876713 ⑆ 18635887571⑆ 11638

(7 points)

2. Compare the following numbers using symbols : $<$, $=$, $>$.

- 40 41
- -4.3 -7.6
- 10 0
- 4.03 4.03
- 1.57 -0.57
- -3.555 -2.9
- 1.74 2.2

(5 points)

3. Round the following numbers:

- a. 2365 to the nearest hundred = -----
- b. 3.69 to the nearest unit = -----
- c. 1.11225 the nearest thousandth = -----
- d. 77.271 to the nearest tenth = -----
- e. 20.9841 to the nearest hundredth = -----

(8 points)

4. **Solve the following proportions:** (Round the answer to the nearest hundredth)

$$\frac{1}{4} = \frac{x}{20}$$

Answer: $x =$

$$\frac{4}{x} = \frac{2}{5}$$

Answer: $x =$

$$\frac{x}{18} = \frac{5}{27}$$

Answer: $x =$

$$\frac{2}{15} = \frac{2}{x}$$

Answer: $x =$

(6 points)

5. **Find the following percentages:**

▪ 15% of 275 =

▪ 32% of 25 =

(8 points)

6. Convert the following measurements using the information sheet at the beginning of the test:

a) Convert 5 cm into inches: ----- in

b) Convert 14 inches into cm: ----- -cm

c) Convert 10 lbs. into kilos: -----Kilos

d) Convert 10 Kilos into Lbs.: ----- --Lbs.

\$CAN 1 = € 0.6855 (Euros)

(5points)

7. Bunny is in Paris. She bought a very expensive scarf at € 225 (Euros).

How much does this sweater cost in Canadian dollars?

(10 points)

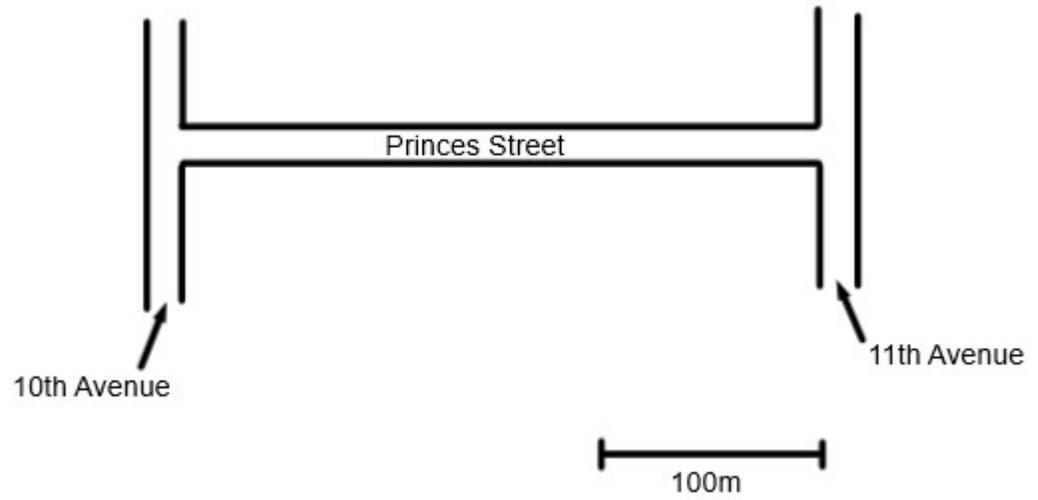
8. Christian works at the health spa. He has worked 27 hours this week. His hourly salary is \$18.

What is his **Gross Salary**?

His salary deduction is 26% of his Gross Salary. What is his **NET Salary**?

(15points)

9. Bunny has bought a new house on Princes Street, which stretches from 10th Avenue to 11th Avenue. Can you help her find first the scale and then the real measurement of the street?



1. Find the scale.

2. Find the real length of Princes Street.

(10points)

10.

You share a place of business with 3 co-investors. These are the monthly expenses:

Hydro.....	\$ 600.00
Rent.....	\$2,150.00
Coffee.....	\$ 80.00
Insurance.....	\$ 240.00
Phone.....	\$ 80.00
WiFi.....	\$ 70.00
Miscellaneous.....	\$ 450.00

a) Calculate the total expenses

b) How much does each investor have to pay per month?

(10 points)

11.

- a. Eli is travelling from Montreal to Quebec City by car. If the distance between Montreal and Quebec City is 254.8 km and he travels at 115km/h, how much time will Eli need to arrive in Quebec City?

(Do not forget to use the formula in the information sheet)

- b. If Eli decides to go to Sherbrooke instead of Quebec City and he travels at 95 km/h, how much time it will take him to arrive in Sherbrooke? (knowing that the distance between Montreal and Sherbrooke is 156.3 Km.)

12.

(10 points)

- If Samantha worked 7h and 45 min at the stock exchange and then she worked 4 hours 15 min at the hockey card store, how much time did she work?

- Trina traveled 3 hours 20 min from Montreal to Winnipeg. Then she traveled 1 hours 45 min from Winnipeg to Vancouver, how much time did she travel?