

Pretest DA

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:

- 480: -----
- 40: -----
- 625: -----

(3points)

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

- Date: 2-October-2020
- Pay to Hydro Jamaica
- Amount to pay: \$ 160.00

2815

Date _____

Pay to the Order of _____ \$ _____

Dollars

Memo: _____

⑆ 85876713 ⑆ 18635887571⑆ 11638

(7 points)

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

- 1.37 2.1
- -4.3 -7.6
- 0.001 0.001
- 1 0
- -1.57 -0.57
- 2.345 1.4
- -20 -22

(5 points)

3. Round the following numbers:

- a. 5632 to the nearest hundred = -----
- b. 2.63 to the nearest unit = -----
- c. 4.25346 the nearest thousandth = -----
- d. 11.258 to the nearest tenth = -----
- e. 45.2391 to the nearest hundredth = -----

(8 points)

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

$$\frac{3}{4} = \frac{x}{12}$$

Answer: $x =$

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

Answer: $x =$

$$\frac{x}{9} = \frac{5}{9}$$

Answer: $x =$

$$\frac{2}{15} = \frac{4}{x}$$

Answer: $x =$

(6 points)

5. **Find the following percentages:**

▪ **55% of 175 =**

▪ **11% of 25 =**

(8 points)

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

a) Convert 25 cm into inches: ----- in

b) Convert 54 inches into cm: ----- -cm

c) Convert 7 lbs. into kilos: -----Kilos

d) Convert 12 Kilos into Lbs.: ----- --Lbs.

\$CAN 1 = € 0.6855 (Euros)

(5points)

7. Alex is in Paris. He bought a very expensive soccer scarf at € 85 (Euros).

How much does this sweater cost in Canadian dollars?

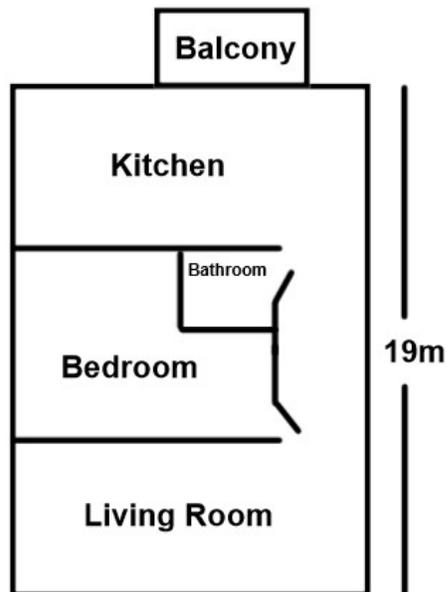
(10 points)

8. Andrew works at the TD Bank. He has worked 35 hours this week. His hourly salary is \$27.
What is his **Gross Salary**?

His salary deduction is 30% of his Gross Salary. What is his **NET Salary**?

(15points)

9. Hendricks has bought a new apartment and wants to know the real measurement of his balcony (the width and the length). Can you help him find first the scale and then the real measurements of the balcony?



1. Find the scale.
2. Find the real measurements (length and width) of the balcony.

(10points)

10.

You share an apartment with 3 more persons. These are the monthly expenses:

Hydro.....	\$ 300.00
Rent.....	\$1,100.00
Groceries.....	\$ 200.00
Insurance.....	\$ 40.00
Phone.....	\$ 50.00
Cable.....	\$ 80.00
Miscellaneous.....	\$ 350.00

a) Calculate the total expenses

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

(10 points)

11.

- a. Doug is travelling from Montreal to Ottawa by car. If the distance between Montreal and Ottawa is (201.4 km) and he travels at 110km/h. how much time he will need to arrive to Ottawa?

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

- b. If Doug decides to go to Kingston instead of Ottawa and he travels at 100 km/h, how much time it will take him to arrive to Kingston? (knowing that the distance between Montreal and Kingston is 318.9 Km.)

