

Pretest DC
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:

- 370: -----
- 86: -----
- 993: -----

(3points)

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

- Date: 10-January-2021
- Pay to GM Auto
- Amount to pay: \$ 374.50

2815

Date _____

Pay to the Order of _____ \$ _____

Dollars

Memo: _____

⑆ 85876713 ⑆ 18635887571⑆ 11638

(7 points)

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

- 2.77 1.3
- -4.1 -6.6
- 0.003 0.0033
- -0.26 -0.62
- -1 -1
- 4.4 5.35
- -2 2

(5 points)

4. Round the following numbers:

- a. 68.529 to the nearest hundredth = -----
- b. 1.27 to the nearest tenth = -----
- c. 3332.16 the nearest thousand = -----
- d. 17.447 to the nearest tenth = -----
- e. 7885.1 to the nearest hundred = -----

(8 points)

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

$$\frac{1}{4} = \frac{x}{16}$$

Answer: $x =$

$$\frac{8}{x} = \frac{8}{5}$$

Answer: $x =$

$$\frac{x}{30} = \frac{5}{6}$$

Answer: $x =$

$$\frac{8}{24} = \frac{2}{x}$$

Answer: $x =$

(6 points)

6. **Find the following percentages:**

▪ **65% of 180 =**

▪ **44% of 750 =**

(8 points)

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

a) Convert 24 kilos into pounds: ----- lbs

b) Convert 38 inches into cm: -----cm

c) Convert 190 lbs. into kilos: -----Kilos

d) Convert 14 feet into inches: -----inches

\$CAN 1 = € 0.665 (Euros)

(5points)

8. Vanessa is in Amsterdam. She bought a Delft platter at € 162 (Euros).

How much does this platter cost in Canadian dollars?

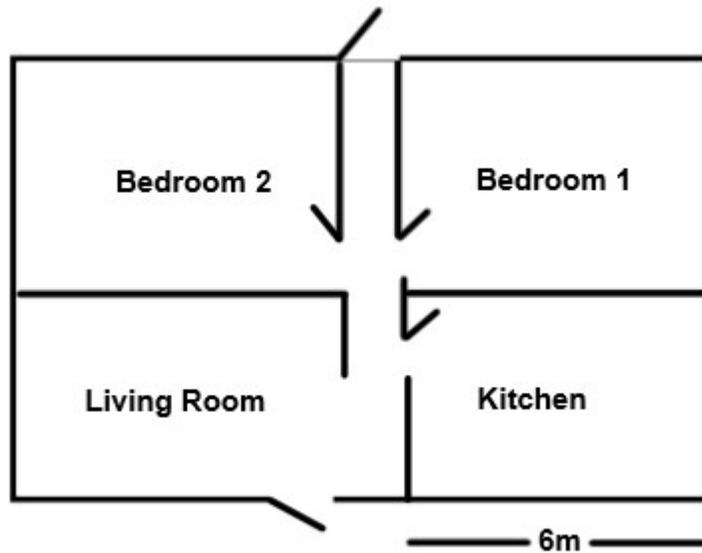
(10 points)

9. Drew works at the stadium. He has worked 35 hours this week.
His hourly salary is \$21.50.
What is his **Gross Salary**?

His salary deduction is 27% of his Gross Salary. What is his **NET Salary**?

(15points)

10. Felix is doing renovations in a house and wants to know the real dimensions of Bedroom 2. First find the scale and then find the real measurements of Bedroom 2.



1. Find the scale.

2. Find the real dimensions of Bedroom 2.

(10 points)

10.

You share a condo with 2 more persons. These are the monthly expenses:

Hydro.....	\$ 170.00
Rent.....	\$1,450.00
Groceries.....	\$ 320.00
Insurance.....	\$ 51.51
Wifi.....	\$ 57.00
TV.....	\$ 81.40
Miscellaneous.....	\$ 360.00

a) Calculate the total expenses

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

(10 points)

11.

- a. Melanie is travelling from Ottawa to Pembroke by car. If the distance between Ottawa and Pembroke is 147.2 km and she travels at 115 km/h, how much time will she need to arrive in Pembroke?

(Use the formula in the information sheet.)

- b. If Melanie then decides to go from Pembroke to St. Thomas and she travels at 108 km/h, how much time will it take her to arrive in St. Thomas? The distance between Pembroke and St. Thomas is 571.5 km.

