



Minuwangoda Educational Zone

Second Term Evaluation - 2025

Grade - 8

Mathematics I

Name:

Time: 2 hours

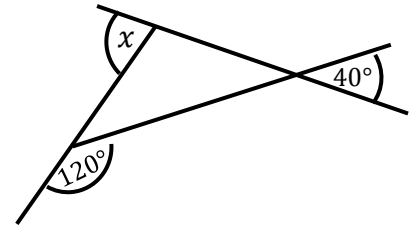
Part I

Answer all the questions.

01) 2.753×100 Simplify

02) Write as an improper fraction $3\frac{3}{4}$

03) Find the value of x .



04) $2.75t$ Write in kg

05) $\frac{(-4) \times \dots}{(-5)} = (+8)$ Write the suitable value in the blank.

06) Write the shape of a face in Regular Octahedron.

07) If $275 \times 17 = 4675$ hence Find the value of 2.75×1.7

08) If $2x - 1 = 13$ then the value of x ?

09) Name a quadrilateral which has a rotational symmetry but not a bilateral symmetry.

10) Find the value of $\sqrt{3^2 \times 5^2 \times 5^2}$

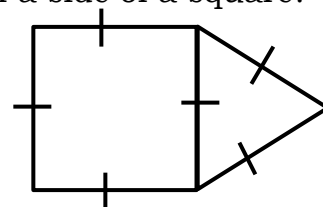
11) Which term is 28 in the number pattern with the common term $4 + 2n$

12) $\frac{27}{100}$ Write as a decimal number?

13) Simplify $(-8) + (-12) - (+10)$

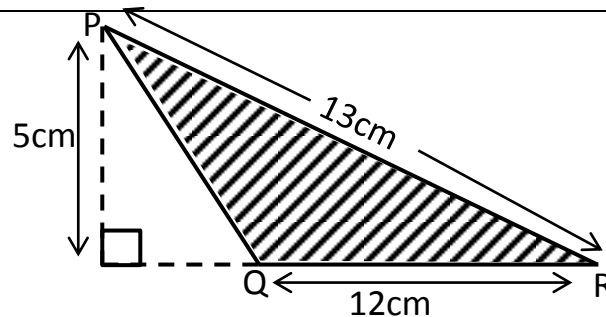
14) $P = \{0\}$, Is P a null set? Give reasons for your answer?

15) The plane figure is shown that by joining a square and an equilateral triangle. The perimeter is 30cm and each sides are equal. Find the length of a side of a square?



16) The algebraic expression $5x - 15xy - 20x^2$ is given below as a product of two factors. Write the suitable values of the blanks. $5x(\dots\dots\dots - 3y - \dots\dots\dots)$

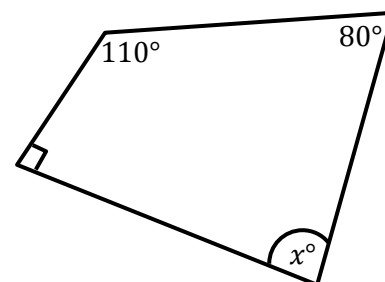
17) Find the area of $PQR\Delta$.



18) 23:50 Express as a percentage.

19) The total surface area of a cube is 600cm^2 . Find the length of a side?

20) Find the value of x .

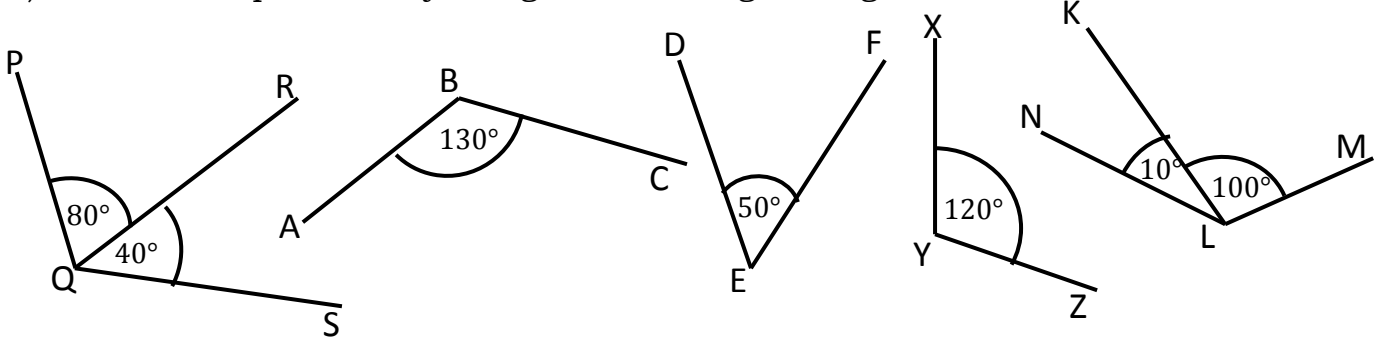


Part II

Answer first question and another four questions.
First question is compulsory.

01)

a) Answer the questions by using the knowledge of angles.

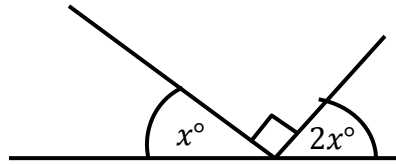


- i. Write the complement angle of $\hat{Q}R$?
- ii. Write the supplement angle of $\hat{B}C$?
- iii. Name the complement angle of $\hat{Q}S$?
- iv. Name a pair of angle that are equal in value?

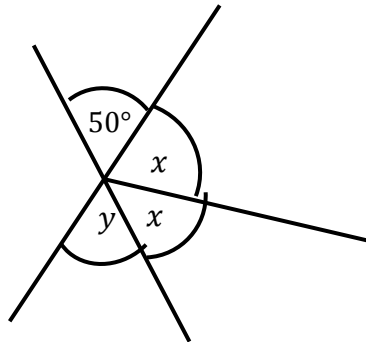
b) Write down 3 characteristics of a pair of adjacent

c)

- i. Find the value of x with reasons



- ii. Find the values of x and y with reasons.



02)(a)

- i. Express as a fraction in the simplest form 0.85
- ii. Simplify $1.95 \div 0.5$

(b)

- i. Simplify $1\frac{3}{4} + 3\frac{1}{2} - 2\frac{3}{5}$
- ii. How many equal pieces of ribbon $1\frac{1}{4}m$ length can be cut by 20m length ribbon.

03)

(a) Simplify $5a(2a - 3b - 1) + (8ab - a)$

(b)

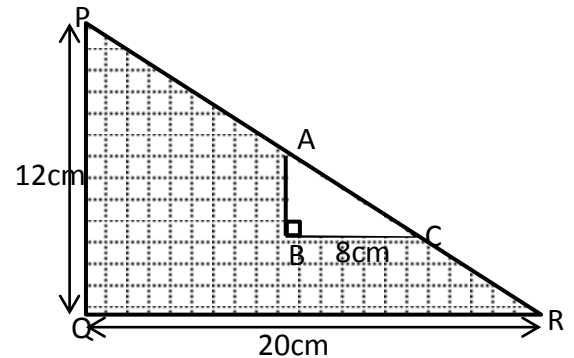
- iii. If x is multiplied by 2 and subtracted 3 then value is divided by 5, the result is equal to 1. Construct an equation that includes this information.
- iv. Find the value of x by solving above equation.

04)

- (a) In a government school, The ratio of Sinhalese students to Tamil students is 5:2 and the ratio of Tamil students to Muslim Students is 1:3.
- Find the ratio of Sinhalese students to Tamil students to Muslim students
 - If the number of Muslim Students are 30. How many total Students are there in the school.
- (b) The monthly salary of a person is Rs.75000. It is increased by 20%
- Find the new salary
 - He decided to deposit Rs.9000 to his bank account. Find the percentage of that amount from his salary?

05)

- PQR Find the area of triangle PQR .
- If the length of AB is equal to half of the length of PQ side, then find the length of AB
 - Find the area of ABC triangle
- Write the ratio between area of the shaded region and area of the triangle ABC



06)

- $125x^3$, Express as a power of a product.
- Is the number 1273 be a perfect square number? Give reasons for your answer?
 - The area of a square shaped tile is $324cm^2$. Find the length of a side.
- When the time in -7 time zone is 21:00 on 13th of Tuesday Find the data and time in a country in the +2 time zone.

07)(a)

- Write the set of prime numbers between 10 to 30. Name it as "A"?
- Name the set of even numbers from 1 to 15 and name it as B?
- Find $n(A)$?
- Fill in the blanks using $\in$ and $\notin$
 - 4 A
 - 11 A
 - 8 B

(b) Find the values

- $(-1)^9 = \dots\dots\dots$
- $(-5)^2 \times 2^3 = \dots\dots\dots$