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 Second Term Test - 2025

Grade 07

Mathematics

02 Hours

Name / Index No. :

Part - I

- Answer all the questions on this paper itself.
- Each question carries 2 marks.

01. Express the 5g 450 mg of milligrammes.

02. Represent the set of letters of the word "WATTALA" in a venn diagram.

03. Write the AD 2025 belonging,

- (i) Decade.
- (ii) Century.

04. If a copper wire of length 1m 20cm is cut in to equal parts of 15 cm long, find the number of parts that can be cut?

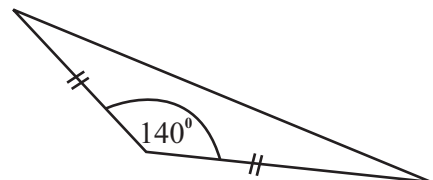
05. Write in index notation, $3 \times 3 \times 3 \times a \times a$

06. Simplify, $5(7 - 3) + 1$

07. Solve the equation, $5x + 1 = 31$

08. Name this triangle,

- (i) According to the length of sides.
- (ii) According to the angles.



09. Simplify. $\frac{2}{5} + \frac{1}{10}$

10. Write two features of a regular polygon ?

11. Find the H.C.F. of 18, 24, 30

12. Arrange the following fractions in ascending order.

$$\frac{1}{2}, \frac{1}{3}, \frac{3}{5}$$

13. If the radius of a circle is 8 cm, find the diameter of it?

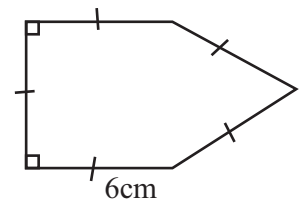
14. When $x = 5$ and $y = 2$, find the value of $8y + x$

15. Simplify. $5.72 \div 1000$

16. Find the area of a rectangle, if the length and the width of it are 25 cm and 13 cm.

17. Simplify. $3x + 6y + 5x + 3y + 7$

18. Find the perimeter.



19. Write 0.35 as a fraction and express it in the smallest form?

20. Underline the numbers which are divisible by 6.

162, 6039, 543, 7212

- Answer the first question and four other questions.
 - First question carries 16 marks and other questions carry 11 marks.
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01. (a) Put a '✓' to the expressions which clearly define a set, and a 'X' to those do not clearly define a set.

- (i) Vowels of English alphabet ()
- (ii) Prime numbers ()
- (iii) Talented Singers ()
- (iv) Tall students ()
- (v) Multiples of 4 between 0 and 20 () (05m.)

(b) $A = \{\text{Square numbers from 0 to 20}\}$

- (i) Write the elements of set A within curly brackets. (02m.)
- (ii) Is 49 an element of the above set? Give reasons. (02m.)

(c) The length of a rectangle is 3 cm more than its width.

- (i) If the length of the rectangle is x , construct the algebraic expression for the width of it. (01m.)
 - (ii) Construct the algebraic expression for the perimeter. (02m.)
 - (iii) If the perimeter is 26 cm, find the length and the width. (04m.)
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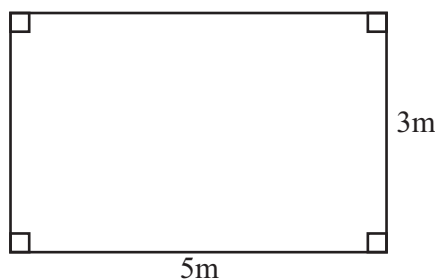
02. (i) Draw a straight line segment $AB = 6\text{cm}$ and name the midpoint of it as O. (03m.)

(ii) Draw a circle by taking O as the center and OA as the radius. (02m.)

(iii) Draw a another circle by taking B as the center and radius is equal to the radius of the above circle and name the intersection points of the two circles as P and Q. (03m.)

(iv) Complete the quadrilateral OPBQ and write the special name of it. (03m.)

03. This is the diagram of the bottom of a water tank of a house.



- (i) Find the perimeter of the bottom of the water tank. (02m.)
 - (ii) Find the area of the bottom of the water tank. (02m.)
 - (iii) There is an idea to apply coating for protection of the bottom. If the application cost per 1 m^2 is Rs. 250/=, find the total application cost? (02m.)
 - (iv) When height of the above tank is 4m, find the volume of it? (03m.)
 - (v) If 1 m^3 volume can hold 1000l, find the capacity of the tank in terms of liters. (02m.)
-

04. (a) Simplify.

(i) $\frac{5}{7} - \frac{4}{7}$ (01m.)

(ii) $\frac{2}{3} + \frac{1}{4}$ (03m.)

(iii) $4\frac{3}{5} - 1\frac{1}{5}$ (03m.)

(b) Find the value.

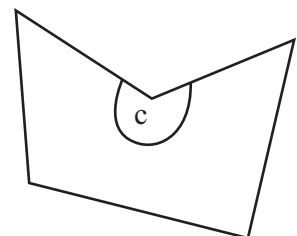
(i) 45.31×1000 (02m.)

(ii) 7.51×9 (02m.)

05. (a) (i) Draw the axes of symmetry of this figure. (02m.)
- (ii) Name two occasions where you can see parallel straight lines in your day to day life. (02m.)



- (b) (i) Name the type of angle C. (01m.)
- (ii) Write the type of this polygon. (01m.)



- (c) (i) Draw the angle of 50° and name it as ABC. (03m.)
- (ii) Which type of angle is formed when the minute hand of a clock rotates from the number 1 to number 3. (02m.)

06. (a) Simplify.
- (i) $(+5) + (-3)$ (01m.)
- (ii) $(-4) + (-2)$ (01m.)
- (b) (i) Write 36 as a product of its prime factors. (03m.)
- (ii) When $a = 2$, $b = 3$, find the value of $4a^2b$. (03m.)
- (c) Buses leave from Colombo bus stand every 30 minutes to city A and every 40 minutes to city B. If buses left to both cities at the same time at 9 a.m., at what time did buses again leave to both cities at the same time? (03m.)
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07. (a) Three friends, Samudi, Amaya and Nethmi who are studying in grade 7, took 1l 500ml bottle of soft drink and drank it completely. Samudi drank 420ml and Amaya drank 570ml.
- (i) Find the amount of drink that Nethmi drank? (03m.)
- (ii) Find how much more drink Amaya drank than Samudi? (01m.)
- Express it in liters. (02m.)
- (b) Simplify,
- (i)
- | | | |
|---|----------|-----------|
| | <i>g</i> | <i>mg</i> |
| | 5 | 900 |
| + | 2 | 450 |
| | <hr/> | |
| | <hr/> | |
- (02m.)
- (ii) At the age of 5 years 6 months and 23 days, Bhagya entered to the school. If already she learnt the school at 6 years 7 months and 19 days. Find her age now? (03m.)