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Provincial Department of Education - NWP

0070

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Second Term Test - Grade 07 - 2024

MATHEMATICS

2 Hours

Name / Index No:

Part - I

- Answer all questions of part I on question paper itself and attached with the answer script of part II
- Each question carries 2 marks.

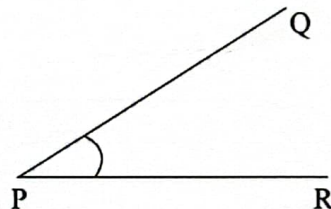
01. Simplify. $\frac{7}{12} - \frac{5}{12}$

02. Represent the elements of the set given below in a Venn diagram.
A = {the odd numbers between 0 and 10}

03. Write 0.75 as a fraction and write down it in the simplest form.

04. I. Name the angle given in the figure.

II. Name its vertex.



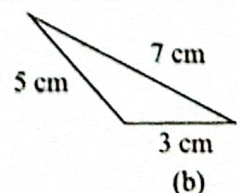
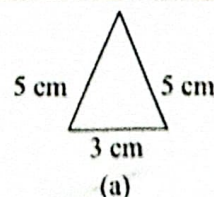
05. Write 2.05g in milligrams.

06. Solve $3x - 5 = 7$

07. What is the year including 28 days for the month of February becoming after the year 2024?

08. Simplify, $12 + 12 \div 2$

09. Filling in the blanks
According to the length of the sides,
triangle (a) is an and triangle
(b) is a



10. Simplify, $7a + 5b - 2a - b + 3$

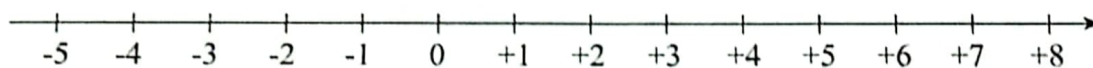
11. What is the number which is divisible by 2 and 3 without remainder that exists below and nearest to 100 ?

12. Write $\frac{61}{11}$ as a mixed number

13. If $x = 3$ and $y = 2$, Find the value of $5x - y + 7$

14. If Sandali's date of birth is 2012.07.20. If her brother is 1 year 9 months and 23 days older than her. What is her brother's date of birth?

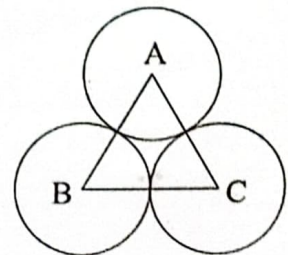
15. Find the value of $(+3) + (-5)$ using the following number line



16. Filling in the blanks by putting the symbol $>$ or $<$ or $=$

$$4\frac{7}{12} \dots\dots\dots 4\frac{1}{3}$$

17. ABC is an equilateral triangle. The perimeter of the triangle ABC is 42 cm. There are 3 circles with same radius and the centers are A, B and C. Find the radius of the circle with the center C.



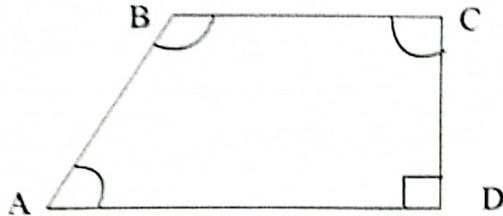
18. When a part of 3 m 50 cm of a wire with the length of 8 m 25 cm is removed, Find the length of the remaining part of the wire.

19. Filling the blanks, $835.2 \div \dots\dots\dots = 8.352$

20. If the area of a rectangular block of land is 48 m^2 and its length is 8 m, find its breadth.

- Answer 5 questions including 1st question.
- 1st question carries 16 marks and each of other questions carries 11 marks.

01. (a) Following figure shows a trapezium ABCD.



According to the figure

- Name a pair of parallel lines (marks 02)
- By considering sizes of the angles write down the type of angles which belong to the angles given in the table.

Angle	Type of the angle
$\angle ABC$	
$\angle BAD$	
$\angle BCD$	

(marks 03)

- Name two instruments which can be used in the classroom to draw a pair of parallel lines. (marks 02)
- Construct a circle with the radius of 3 cm and name its center as O. (marks 02)
 - Mark a point P on the circle and join PO. (marks 02)
 - Produce the line PO to meet circle at Q. (marks 01)
 - Write terms used to define the lines PO and PQ and write the relationship that exists between them. (marks 04)

02. (a) Length of a rectangular lamina is 8 cm more than its breadth.

- By taking the breadth as x cm, find the length of the lamina in terms of x . (marks 02)
- If the perimeter of the lamina is 44 cm. By constructing an equation in terms of x , find the breadth of the lamina. (marks 04)
- Find the area of the lamina. (marks 03)
- Write down a pair of length and breadth suitable for another rectangular lamina with the same area. (marks 02)

03. (a) (i) Simplify, $7\frac{1}{3} + 5\frac{3}{4}$ (marks 04)

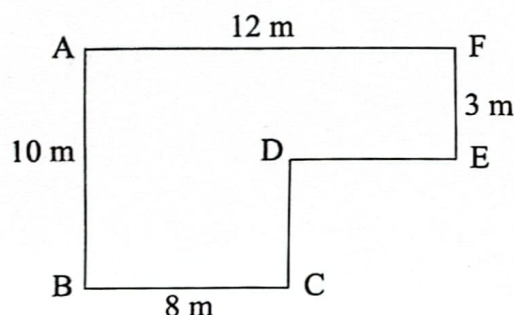
(ii) $\frac{7}{8}$ of a tank is filled with water. If $\frac{2}{3}$ of a tank is used. Find the remaining amount of water as a fraction. (marks 03)

(b) Simplify,

(i) 2.837×100 (marks 01)

(ii) 2.832×8 (marks 03)

04. Below figure ABCDEF shows floor of a house. It is expected to lay tiles on it.

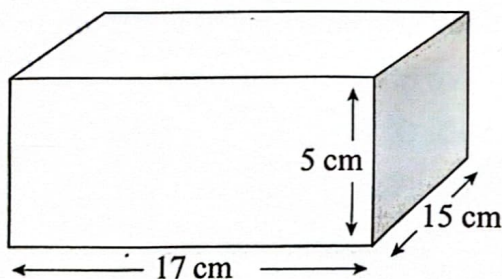


(i) Find the area of the floor. (marks 04)

(ii) It is expected to lay square shaped tiles with the side length of 50 cm. Find the number of tiles required for that. (marks 04)

(iii) If the price of a tile is Rs. 200. Find the amount of money to be spent for buying the tiles to cover the whole floor. (marks 03)

05. (a) Following sketch shows a cubic glass rod where the length, breadth and height are 17 cm, 15 cm and 5 cm.



(i) Find the volume of glass rod in cm^3 (marks 03)

(ii) When this glass rod is immersed completely in a vessel which is filled with water. Find the amount of water spilled in milliliters. Write answer in liters and milliliters. (marks 02)

(iii) Find the amount of water spilled when 4 such glass rods are immersed completely in the vessel. (marks 03)

(b) 4ℓ 50 ml of cool drink is filled into 6 identical vessels. Find the amount of drink included in one vessel. (marks 03)

06. 2 papaws with same mass, 3 bunches of banana with same mass and 7 mangoes with same mass are bought for preparing a fruit salad.

Type of fruits	Mass
one papaw	2 kg 97 g
one bunch of banana	1 kg 7 g
one mango	255 g

According to the table,

- (i) Find the mass of a papaw in grams. (marks 02)
- (ii) Find the difference of the masses of bunch of a banana and a mango. (marks 02)
- (iii) Find total mass of the fruits brought for preparing the fruit salad. (marks 05)
- (v) By considering that 1 kg 250 g of fruits are removed as waste, find the amount of fruits received by one student in grams when this salad is shared among 50 students equally, (marks 02)

07. Of the numbers 12, 18, 24

- (a) (i) Find the Highest Common Multiple (HCF) (marks 03)
- (ii) Find the Least Common Multiple (LCM) (marks 03)
- (b) Write the number obtained for the Least Common Multiple (LCM) as a product of powers of its prime factors. (marks 03)
- (c) Expand $2a^2b^3$ (marks 02)

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