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Provincial Department of Education - NWP

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Second Term Test - Grade 08 - 2024

0053

MATHEMATICS

2 Hours

Name / Index No: .....

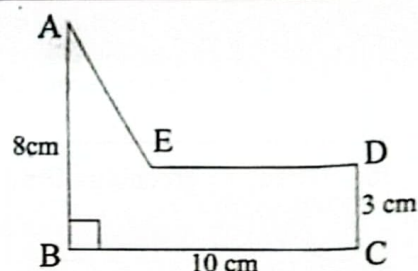
Part - I

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

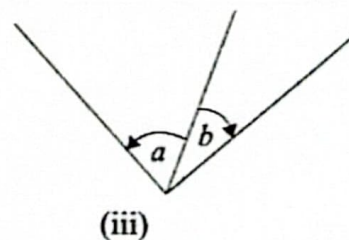
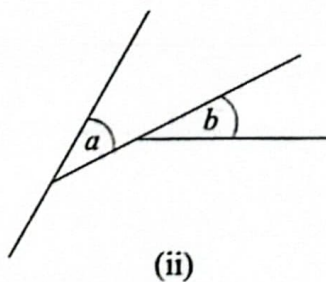
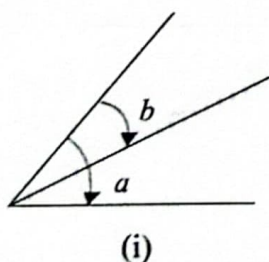
01. Write the first two terms of the general term  $3n - 2$

02. Solve  $1\frac{1}{4} \times \frac{2}{5}$

03. Find the perimeter of the given diagram, with reference to its included data & according to  $AB = AE + ED$



04. Select the pair of adjacent angles.



05. Find the factors of  $6x + 12y$

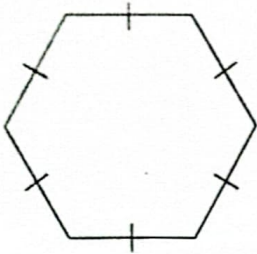
06. Solve  $3.82 \times 10.5$

07. Select the suitable symbol which match for blank.

( $<$ ,  $=$ ,  $>$ )

$2^2$    $3^2$

08. Find the number of rotational symmetry in the given diagram



09. 1.7 t display in kg

10. Solve  $(-3) + (-7)$

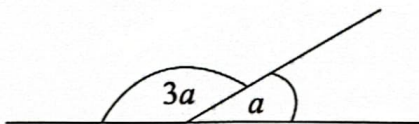
11. By considering the number 225

(i) Find the factors using prime numbers

(ii) Find the squareroot of 225

12. Write in percentage form  $\frac{4}{5}$

13. Find the value of "a"



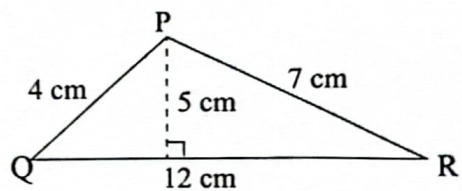
14. Display in simplest form

125 : 225

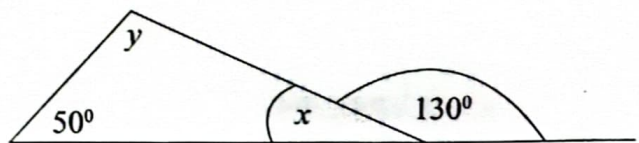


15.  $A = \{\text{Prime numbers between } 10 - 30\}$   
Find the value of  $n(A)$

16. Find the area of PQR triangle



17. Find the value of  $x$  and  $y$



18. Solve  $3x - 1 = 11$

19. 1948 Year belongs to  
(i) Decade  
(ii) What is the century?

20. Simplify  
 $2(2x + y) - 3(x + y)$

## Part - II

- Answer five questions including the first question.
- 16 marks are given to the first question and 11 marks given to the each other questions.

01. (a) A certain amount of money distributed among Ishad & Aravinda to 2 : 3, and among Aravinda & Suneth, to 5 : 1, If suneth got Rs. 120000/=
- (i) Find the common ratio, which the money was divided among Aravinda, Ishad & Suneth? (marks 04)
  - (ii) What is the total amount of money gain by Aravinda. (marks 03)
  - (iii) What is the percentage of money gain by Ishad (marks 03)
- (b) By the money gain by Ishad and Suneth they had started a business bigining of the year, After 6 months Aravinda also joned with them by investing his money.
- (i) What is the ratio of profit they will divide in the end of the year (marks 03)
  - (ii) If their profit was Rs. 820000/= find the profit one will get seperately ? (marks 03)

02. (a) Simplify

(i)  $5\frac{1}{2} + \frac{3}{4}$  (marks 02)

(ii)  $\frac{1}{7} \times 2\frac{4}{5}$  (marks 02)

(iii)  $5\frac{1}{4} \div 4\frac{1}{5}$  (marks 02)

(b) (i) 0.03, Write as a fraction. (marks 02)

(ii) What is the area of a land with length 7.2 m & width 3.5 m (marks 03)

03. (a) There is a loss of 4% of paddy if it is harvesting using of machines. The remaining of paddy was 48 kg after harvesting from a certain paddy field.

(i) What is the loss gain (marks 04)

(ii) What is the total harvest (marks 02)

(b) The area of a squre shaped was 784 cm<sup>2</sup>, find the side length. (marks 05)

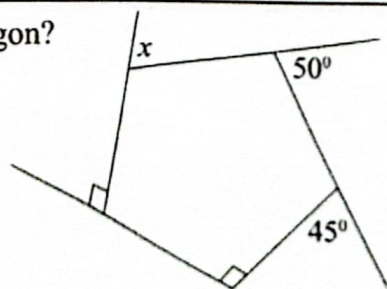
04. (a) (i) Find the highest common factor of 3x and 6 (marks 02)

(ii) Find the factors of 3x + 6 (marks 03)

(b) Solve.  $\frac{3x-2}{5} = 2$  (marks 06)

05. (a) (i) Find the sum of the exterior angles of a Pentagon?

(ii) Find the x Value

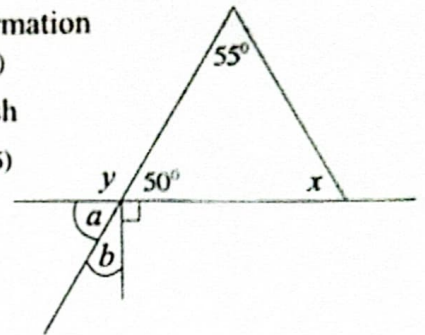


(marks 02)

(marks 03)

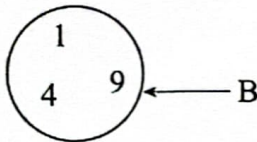


- (i) Write two pair of complementary angles according to the information marked in the given figure. (mark 01)
- (ii) Find the magnitude of each of the angles marked by an English letter in the figures given below. ( $x, y, a, b$ ) (marks 05)



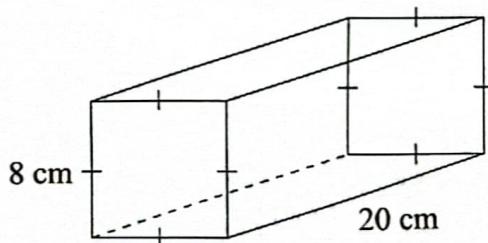
06. (a)  $A = \{0 - 10 \text{ prime numbers}\}$

- (i) Write the set A with all the elements (marks 03)
- (ii) Find the value of  $n(A)$  (marks 02)
- (b) (i) Write an example for a infinite set (marks 02)
- (ii) (marks 02)



Describe the set of elements shown in the diagram by a common feature that can be Identified.

07. There is a rectangular shaped biscuit packet.



- (i) Draw a sketch of rectangular face with measurements. (marks 03)
- (ii) Find the surface area of the biscuit packet. (marks 05)
- (iii) What are the minimum width & length of the paper needed to cover the rectangular surface of the biscuit packet (marks 03)



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