වයඹ පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව
Provincial Department of Education - NWP

දෙවන වාර පරීක්ෂණය - 08 ශ්‍රේණිය - 2024
Second Term Test - Grade 08 - 2024

MATHEMATICS

2 Hours

Name / Index No: .....

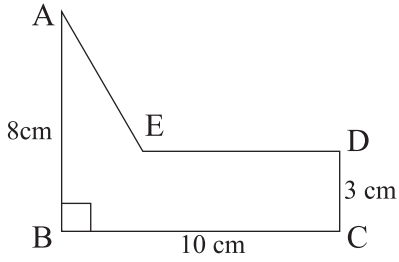
Part - I

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

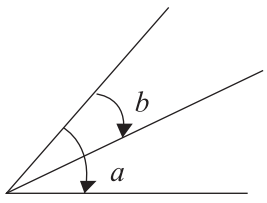
01. Write the first two terms of the general term $3n - 2$

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

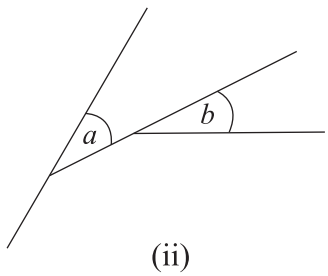
03. Find the perimeter of the gien diagram, with reference to its included data & according to AB = AE + ED



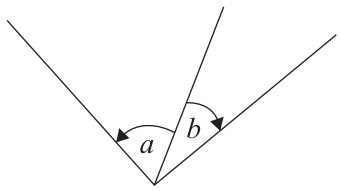
04. Select the pair of adjcent angles.



(i)



(ii)



(iii)

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

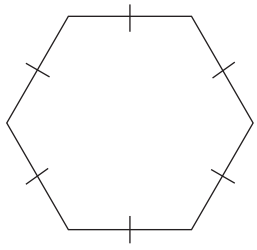
06. Solve 3.82×10.5

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)

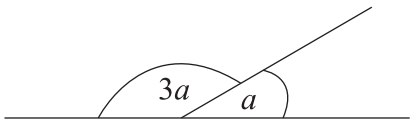
11. By considering the number 225

(i) Find the factors using prime numbers

(ii) Find the squreroot of 225

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

13. Find the value of "a"

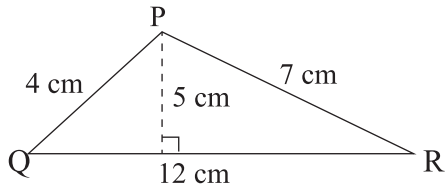


14. Display in simplest form

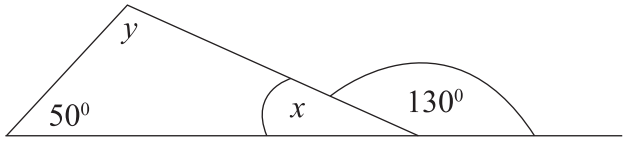
125 : 225

15. A = {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 precentage 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^2, find the side length. (marks 05)

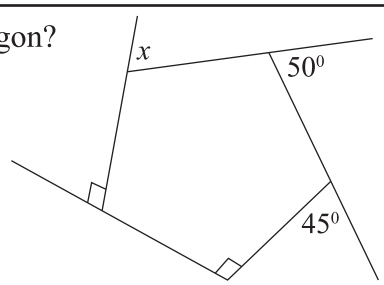
04. (a) (i) Find the highest common factor of $3x$ and 6 (marks 02)

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

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

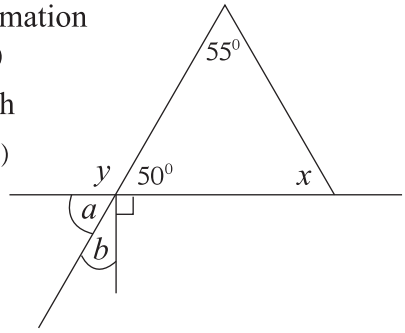
05. (a) (i) Find the sum of the exterior angles of a Pentagon? (marks 02)

(ii) Find the x Value (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)



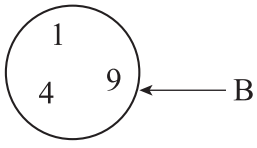
06. (a) A = {0 - 10 prime numbers}

(i) Write the set A with all the elements (marks 03)

(ii) Find the value of n (A) (marks 02)

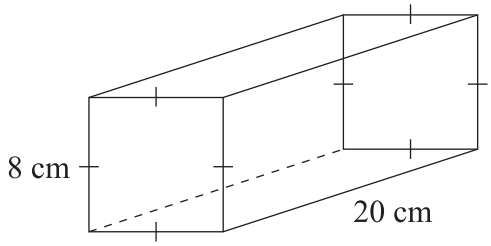
(b) (i) Write an example for a infinite set (marks 02)

(ii) (marks 02)



Discribe 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)