



Name :

Class :

Prepared by :-

Paper I

❖ Answer all the questions.

01. Convert to scientific notation.

438

02. Write in general form

5.678×10^4

03. Round off 641 to

(i) nearest 10

(ii) nearest 100

04. $\frac{2}{4} + \frac{3}{5}$ simplify.

05. How much is $\frac{3}{8}$ of Rs. 464

06. Convert 1205 cm^3 to

(i) milliliters

(ii) liters

07. When $x = \frac{1}{2}$ find the value of $3 - 2y$

08. Expand and find the value

$2^3 a^2$

09. A person who borrowed Rs. 10000 got released from the loan paying Rs. 10800 after 1 year, what is the percentage interest he paid

10. Find the value of x

$2x + 5 = 21$

11. Expand $(x + 1)(x - 2)$

12. Find the factors of

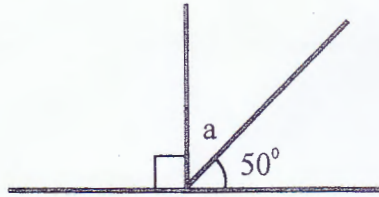
$4ab - 16a + 8a^2$

13. Using axioms and the relations given below, write the conclusion that can be arrived.

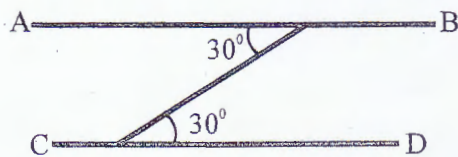
$$a + b = 120^\circ$$

$$c + d = 120^\circ$$

14. Find the value of a



15. Ruwan says lines AB and CD are parallel. Is this true? Give the reason.



16. Find the 5th term of number pattern $3n + 5$
17. Find the value of $(-2) \times (+4) \times (-2)$
18. price of 4 mangoes is Rs. 80. Find the price of 10 mangoes.
19. Simplify $\frac{3^0 \times 0^4}{4^2}$
20. $A = \{\text{Letters of word "NUGEGODA"}\}$
Write the above set of "A" in listing way.

(Marks 20×2)

Paper II

• Answer all the questions.

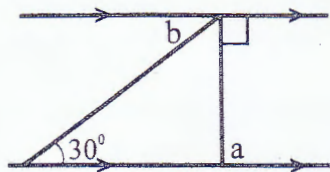
01. (i) 2, 5, 8, 11 Write the next two numbers.

(ii) Write the general term of above number pattern.

(iii) According to the above general term find the 20th term of number pattern.

(iv) $\frac{1}{3}, \frac{2}{4}, \frac{3}{5}, \frac{4}{6}, \dots$ Given an expression for n^{th} term.

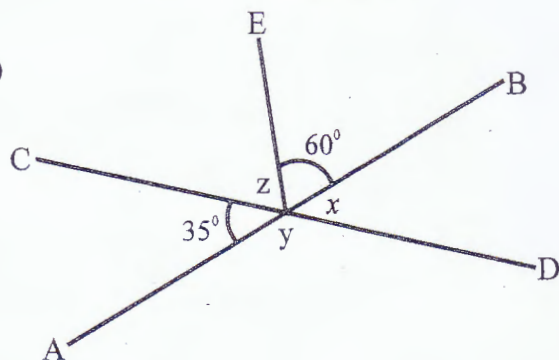
02. a)



(i) What is the value of a ?

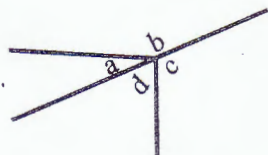
(ii) What is the value of b ?

b)



(i) AB and CD are straight lines find the value of x, y and z

c)



What is the value of $a + b + c + d =$

03. Simplify

(i) $\frac{3}{5} \times \frac{4}{7}$

(ii) $\left(\frac{5}{6} + \frac{1}{8}\right) \times \frac{1}{23}$

(iii) $6\frac{1}{2} \times \left(2\frac{3}{4} \div \frac{11}{12}\right)$

(iv) $\frac{4}{7}$ of $4\frac{2}{3} \div 1\frac{1}{9}$

04. a) A man bought a TV for Rs. 60000 and sold it for Rs. 75000.

(i) What is his profit?

(ii) Find the percentage profit.

b) A broker was paid Rs. 30000 for selling a land for Rs. 1000000. What is the percentage commission he received?

c) Shiran deposited Rs. 150000 in a bank which pays 12% per year for fixed deposits.

(i) What is the interest he receives after 1 years.

(ii) What is the interest he receives after 3 years.

(iii) If he withdraws all the money after 3 years find the total amount that he can receive.

05. a) Simplify the following expressions.

$(m - 5)(m - 2)$

b) Factorise followings.

(i) $2x^2 + 4xy - 10x^2y^2$

(ii) $ab + ac + 2b + 2c$

(iii) $q^2 - 11q + 24$

(iv) $4x^2 - 100y^2$

(Marks 11 × 5)