



CLASS: VIII
DATE: 21/05/2024

MATHEMATICS

MAX. MARKS: 20
TIME: 40 MINUTES

General Instructions:

1. This question paper contains four sections A, B, C and D. Each section is compulsory. However, there are internal choices in some questions.
2. Section A has 4 MCQ and 1 Assertion-Reason based questions of 1 mark each.
3. Section B has 2 Very Short Answer (VSA)-type questions of 2 marks each.
4. Section C has 2 Short Answer (SA)-type questions of 3 marks each.
5. Section D has 1 Long Answer (LA)-type question of 5 marks .

SECTION – A	
[This section comprises of multiple choice questions (MCQ) of 1 mark each]	
1.	Which property allows you to compute $\frac{-2}{7} + \left(\frac{1}{5} + \frac{4}{9}\right)$ as $\left(\frac{-2}{7} + \frac{1}{5}\right) + \frac{4}{9}$? A) Distributivity B) Associativity C) Commutativity D) Closure
2.	If $7x = 20 + 2x$, then the value of x is A) 4 B) -4 C) $\frac{-20}{9}$ D) $\frac{20}{9}$
3.	The regular polygon of 4 sides is A) a rectangle B) a rhombus C) a square D) a parallelogram
4.	The multiplicative identity for rational numbers is A) -1 B) 1 C) $\frac{1}{0}$ D) 0
5.	A statement of assertion is followed by a statement of reason. Choose the correct option. Assertion (A) : Sum of all exterior angles of any polygon is 360°. Reason (R) : Sum of all interior angles of any polygon is 360°. A) Both Assertion and Reason are true, and Reason is the correct explanation for Assertion . B) Both Assertion and Reason are true, but Reason is not the correct explanation for Assertion . C) Assertion is true, but Reason is false. D) Assertion is false, but Reason is true.
SECTION – B	
[This section comprises of very short answer type questions (VSA) of 2 marks each]	
6.	Solve for y : $13(y - 4) - 2(y - 6) + 3(y + 4) = 0$ OR Solve for m: $\frac{m}{2} + \frac{3}{2} = \frac{2m}{5} - 1$
7.	Find $\frac{-8}{9} \times \frac{6}{7} \times \frac{15}{16} \times \frac{-14}{5}$

SECTION – C

[This section comprises of short answer type questions (SA) of 3 marks each]

8. Simplify using distributivity $\left(\frac{-3}{4} \times \frac{2}{3}\right) + \left(\frac{-3}{4} \times \frac{-5}{6}\right)$

9. Solve for x : $\frac{3t-2}{3} + \frac{2t+3}{3} = t - \frac{7}{6}$

OR

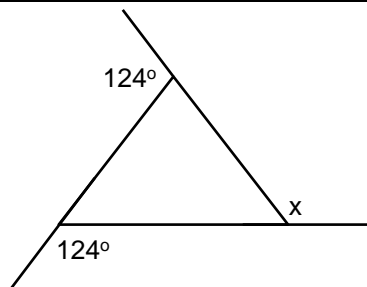
Solve for x: $\frac{2x+7}{5} - \frac{3x+11}{2} = \frac{2x+8}{3} - 5$

SECTION – D

[This section comprises of long answer type question (LA) of 5 marks]

10. a) Find the value of x.

[3 marks]



b) Find the measure of each exterior angle of a regular polygon of 24 sides. [2 marks]

ORa) Simplify and express in the form $\frac{p}{q}$ [3 marks]

$$\frac{3}{4} + \frac{5}{6} + \frac{-7}{8}$$

b) Find $\frac{21}{24} \div \frac{-35}{18}$ [2 marks]