



CLASS: VIII
DATE: 25/05/2023

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 $\frac{-2}{3} + \left(\frac{1}{10} + \frac{4}{9}\right)$ as $\left(\frac{-2}{3} + \frac{1}{10}\right) + \frac{4}{9}$? A) Closure B) Commutativity C) Associativity D) Distributivity
2.	If $8x = 20 + 3x$, then the value of x is A) -4 B) 4 C) $\frac{-20}{11}$ D) $\frac{20}{11}$
3.	The regular polygon of 4 sides is A) a square B) a rectangle C) a rhombus D) a parallelogram
4.	The measure of each exterior angle of a regular polygon of 12 sides is A) 90° B) 60° C) 40° D) 30°
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 x : $0.25(2x - 3) - 0.5(x - 2) = 0.25(6x - 5)$ OR Solve for m: $4(2m - 3) + 2(7m + 1) + 4 = 3(5m - 1) + 4$
7.	Find x:

SECTION – C

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

8.

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

9.

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

OR

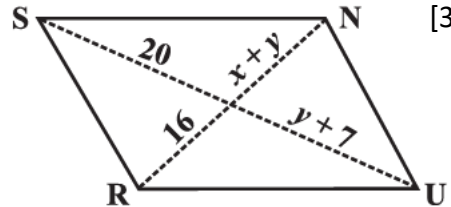
Solve for m: $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$

SECTION – D

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

10

a) RUNS is a parallelogram. Find x and y. [3 marks]

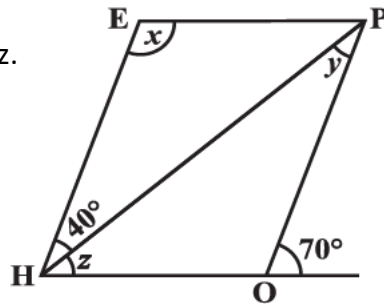


b) The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram. [2 marks]

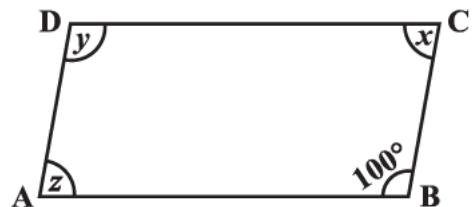
OR

a) HOPE is a parallelogram. [3 marks]

Find the angle measures of x, y and z.



b) ABCD is a parallelogram. Find the values of x y and z [2 marks]





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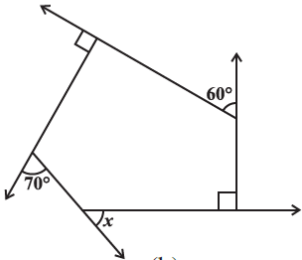
SECTION – A

[This section comprises of multiple choice questions of 1 mark each]

1.	The regular polygon of 4 sides is A) a square B) a rectangle C) a rhombus D) a parallelogram
2.	If $8x = 20 + 3x$, then the value of x is A) -4 B) 4 C) $\frac{-20}{11}$ D) $\frac{20}{11}$
3.	The measure of each exterior angle of a regular polygon of 12 sides is A) 90° B) 60° C) 40° D) 30°
4.	Which property allows you to compute $\frac{-2}{3} + \left(\frac{1}{10} + \frac{4}{9}\right)$ as $\left(\frac{-2}{3} + \frac{1}{10}\right) + \frac{4}{9}$? A) Closure B) Commutativity C) Associativity D) Distributivity
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.	Find x: 
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7.	Solve for x : $0.25(2x - 3) - 0.5(x - 2) = 0.25(6x - 5)$ <p style="text-align: center;">OR</p> Solve for m: $4(2m - 3) + 2(7m + 1) + 4 = 3(5m - 1) + 4$
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SECTION - C
 [This section comprises of short answer type questions (SA) of 3 marks each]

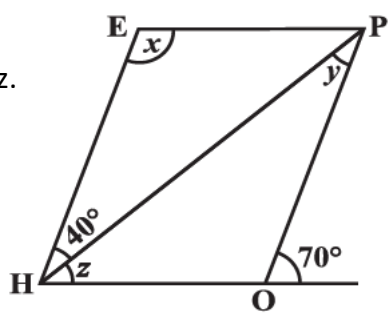
8.	Solve for x: $\frac{2x + 7}{5} - \frac{3x + 11}{2} = \frac{2x + 8}{3} - 5$ <p style="text-align: center;">OR</p> Solve for m: $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$
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9.	Find using distributivity $\left(\frac{-3}{4} \times \frac{2}{3}\right) + \left(\frac{-3}{4} \times \frac{-5}{6}\right)$
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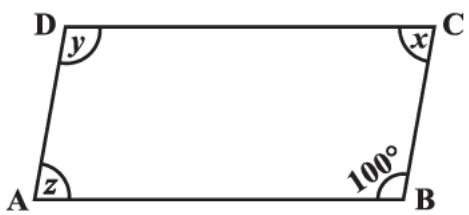
SECTION - D
 [This section comprises of long answer type question (LA) of 5 marks]

10

a) HOPE is a parallelogram. Find the angle measures of x, y and z. [3 marks]

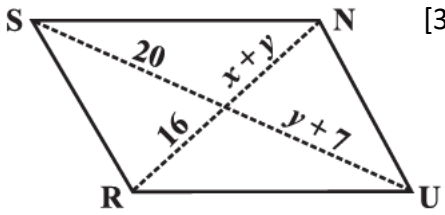


b) ABCD is a parallelogram. Find the values of x, y and z. [2 marks]



OR

a) RUNS is a parallelogram. Find x and y. [3 marks]



b) The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram. [2 marks]

