

Name of the School: _____

SUMMATIVE ASSESSMENT – I (2026–27)

Class VII — MATHEMATICS

English Medium

Model Question Paper — Set B

Time: 2 Hours 45 Minutes

Max. Marks: 80

Name of the Student: _____ Roll No.: _____

Syllabus covered: Ch. 1 Integers, Ch. 2 Fractions, Decimals and Rational Numbers, Ch. 3 Simple Equations, Ch. 4 Lines and Angles, Ch. 5 Triangle and Its Properties, Ch. 6 Ratio – Applications, Ch. 7 Data Handling, Ch. 8 Congruency of Triangles

Instructions:

1. Part A (60 marks) is to be answered in the answer booklet within the first 2 hours 15 minutes.
2. Section I: Q.1–6 — answer all, 2 marks each. Section II: Q.7–12 — answer all, 4 marks each.
3. Section III: Q.13–16 — each question has internal choice; answer (a) or (b). 6 marks each.
4. Part B (20 marks) is to be answered on the question paper itself in the last 30 minutes.
5. Use of calculators is not allowed. Draw rough figures wherever needed.

PART – A

Time: 2 Hours 15 Minutes

Marks: 60

SECTION – I

Note: Answer ALL the questions. Each question carries 2 marks. ($6 \times 2 = 12$)

1. Find the value of $(-8) \times 6 \div (-4)$.
2. Write 0.45 as a fraction in its lowest terms.
3. Solve: $x/4 = 5$.
4. Find the supplement of 75° and the complement of 20° .
5. Can a triangle have angles of 60° , 70° and 60° ? Give a reason.
6. Find the range of the data: 23, 45, 12, 38, 29.

SECTION – II

Note: Answer ALL the questions. Each question carries 4 marks. ($6 \times 4 = 24$)

7. In a class test, 3 marks are given for every correct answer and 1 mark is deducted for every wrong answer. Ravi got 12 answers correct and 5 wrong. Find his score. Also verify that $(-3) \times [4 + (-2)] = (-3) \times 4 + (-3) \times (-2)$.
8. Which is greater, $3/7$ or $5/9$? Also find (i) 2.5×0.4 (ii) $1.44 \div 1.2$
9. The perimeter of a rectangle is 34 cm and its length is 11 cm. Form an equation and find its breadth.
10. Find the angle which is equal to its supplement. Also find the angle which is $3/2$ times its complement.
11. The angles of a triangle are in the ratio 2 : 3 : 4. Find the angles.
12. A bus travels 240 km in 4 hours. How far will it travel in 7 hours at the same speed? Also, if 8 kg of rice costs ₹480, find the cost of 15 kg of rice.

SECTION – III

Note: Answer ONE question (a or b) from each of Q.13 to 16. Each question carries 6 marks. ($4 \times 6 = 24$)

13. (a) Arrange $-3/5$, $2/3$, $-1/2$ and $3/4$ in ascending order. Represent $-3/4$ and $5/4$ on a number line.

OR

(b) Solve $5x - 3 = 3x + 7$ and check your answer. Also, when a number is multiplied by 4 and 9 is added to the product, the result is 45. Find the number.

14. (a) In $\triangle ABC$, $\angle A = x^\circ$, $\angle B = 2x^\circ$ and $\angle C = 3x^\circ$. Find the three angles. Also, side BC of $\triangle ABC$ is extended to D. If $\angle ACD = 120^\circ$ and $\angle A = 50^\circ$, find $\angle B$ and $\angle ACB$.

OR

(b) Draw a pair of parallel lines cut by a transversal. Mark and name the corresponding angles, alternate interior angles and interior angles on the same side of the transversal. Write one property of each pair.

15. (a) A TV bought for ₹12,000 was sold at a loss of 8%. Find its selling price. Also find the amount when ₹6,000 is lent at 9% simple interest per annum for 2 years.

OR

(b) The number of students absent in a class during a week is given below. Draw a bar graph and find the mean number of absentees per day.

Day	Mon	Tue	Wed	Thu	Fri	Sat
Absentees	5	8	3	6	10	4

16. (a) $\triangle ABC \cong \triangle PQR$ by the SAS rule, with $AB = PQ$, $\angle B = \angle Q$ and $BC = QR$. If $AB = 5$ cm, $BC = 6$ cm and $\angle B = 50^\circ$, write the measures of PQ , QR and $\angle Q$. Draw rough figures and write all six pairs of corresponding parts.

OR

(b) What is an isosceles triangle? In an isosceles triangle the vertex angle is 40° . Find the base angles. Also, in a right-angled triangle one acute angle is 35° . Find the other acute angle.

PART – B

Time: 30 Minutes

Marks: 20

I. Multiple Choice Questions*Choose the correct answer and write its letter in the bracket. ($10 \times 1 = 10$)*

1. $(-36) \div (-9) =$ []
(A) 4 (B) -4 (C) 27 (D) -27
2. Which of the following is a negative integer greater than -3? []
(A) -5 (B) -4 (C) -2 (D) 2
3. $3/4 + 1/4 =$ []
(A) $4/8$ (B) 1 (C) $3/16$ (D) $1/2$
4. If $3x = 21$, then $x =$ []
(A) 18 (B) 24 (C) 7 (D) 63
5. Lines in the same plane that never meet are called []
(A) intersecting lines (B) parallel lines
(C) perpendicular lines (D) rays
6. A triangle with one angle equal to 90° is called []
(A) acute-angled (B) obtuse-angled (C) right-angled (D) equilateral
7. 20% of 150 is []
(A) 20 (B) 30 (C) 15 (D) 50
8. The range of 5, 9, 2, 7 is []
(A) 5 (B) 7 (C) 9 (D) 2
9. The median of 3, 5, 7, 9, 11 is []
(A) 5 (B) 7 (C) 9 (D) 35
10. The corresponding parts of congruent triangles are []
(A) equal (B) unequal (C) doubled (D) halved

II. Fill in the Blanks*($5 \times 1 = 5$)*

11. The multiplicative identity of integers is _____.
12. $1/4$ expressed as a percentage is _____.
13. The sum of the angles of a linear pair is _____.
14. The observation that occurs most often in the data is called the _____.
15. The side opposite to the right angle in a right-angled triangle is called the _____.

III. Match the Following*Write the correct letter from Group B in the bracket. ($5 \times 1 = 5$)*

No.	Group A		Group B
16.	Reciprocal of $2/3$ ()	A.	$3/2$
17.	Complementary angles ()	B.	Sum is 90°
18.	Isosceles triangle ()	C.	Two sides are equal
19.	Profit ()	D.	Selling price – Cost price
20.	Range ()	E.	Highest value – Lowest value
		F.	Sum is 180°

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