

Name of the School: _____

SUMMATIVE ASSESSMENT – I (2026–27)

Class VII — MATHEMATICS

English Medium

Model Question Paper — Set A

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 $(-12) + 7 - (-5)$.
2. Convert $\frac{3}{8}$ into a decimal.
3. Solve: $2x + 5 = 17$.
4. Find the complement and the supplement of 35° .
5. Two angles of a triangle are 50° and 70° . Find the third angle.
6. Find the mean of 4, 8, 6, 10 and 12.

SECTION – II

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

7. The temperature at 12 noon was 10°C above zero. It falls at the rate of 2°C every hour. At what time will the temperature be 8°C below zero?
8. Simplify: (i) $2\frac{1}{2} \times 1\frac{1}{3}$ (ii) $7 \div \frac{3}{4}$. Also arrange $\frac{2}{3}$, $\frac{3}{5}$, $\frac{5}{8}$ and $\frac{1}{2}$ in ascending order.
9. The sum of three consecutive integers is 51. Find the integers.
10. Two lines intersect each other. One of the angles formed is three times its adjacent angle. Find all four angles.
11. An exterior angle of a triangle is 110° and one of its interior opposite angles is 40° . Find the other two angles of the triangle.
12. Divide ₹1,200 between Ravi and Sita in the ratio 3 : 5. Also, if 5 pens cost ₹60, find the cost of 12 pens.

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) Simplify $3\frac{1}{2} + 2\frac{3}{4} - 1\frac{5}{8}$. Also find (i) 0.25×1.2 (ii) $4.8 \div 0.06$

OR

(b) Solve $3(x - 2) = 2x + 5$ and check your answer. Also, a father's age is 5 years more than three times his son's age. If the father is 44 years old, find the son's age.

14. (a) Two parallel lines are cut by a transversal. One of the angles formed is 65° . Draw the figure and find all the eight angles. Name one pair each of corresponding angles and alternate interior angles.

OR

- (b) Show by an activity (paper cutting) that the sum of the three angles of a triangle is 180° . Draw the figures.

15. (a) A shopkeeper buys a watch for ₹800 and sells it for ₹920. Find his profit and profit per cent. Also find the simple interest on ₹5,000 at 8% per annum for 3 years.

OR

- (b) Find the mean, median and mode of the following data: 12, 15, 11, 15, 18, 22, 15, 14, 13

16. (a) Draw a bar graph for the following data on the favourite games of the students of a class.

Game	Cricket	Kabaddi	Football	Kho-Kho	Chess
Number of students	12	8	6	5	4

OR

- (b) Write the four criteria for the congruency of triangles (SSS, SAS, ASA and RHS). Draw a rough figure for each.

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. $(-5) \times (-4) =$ []
(A) 20 (B) -20 (C) 9 (D) -9
2. The additive inverse of -7 is []
(A) -7 (B) 7 (C) 0 (D) $1/7$
3. 0.5 written as a fraction is []
(A) $1/5$ (B) $5/100$ (C) $1/2$ (D) $5/1$
4. The solution of $x - 4 = 10$ is []
(A) 6 (B) 14 (C) 40 (D) -6
5. An angle greater than 90° and less than 180° is []
(A) acute (B) right (C) obtuse (D) reflex
6. A triangle with all sides unequal is []
(A) equilateral (B) isosceles (C) scalene (D) right-angled
7. The ratio 15 : 20 in its simplest form is []
(A) 3 : 4 (B) 5 : 4 (C) 15 : 2 (D) 4 : 3
8. The mode of 2, 3, 3, 4, 5 is []
(A) 2 (B) 3 (C) 4 (D) 5
9. If all three sides of one triangle are equal to the three sides of another, they are congruent by []
(A) SAS (B) ASA (C) SSS (D) RHS
10. An exterior angle of a triangle is equal to the []
(A) sum of the two interior opposite angles
(B) difference of the interior opposite angles
(C) adjacent interior angle
(D) sum of all three angles

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

11. The product of two negative integers is always _____.
12. $3/5$ written as a decimal is _____.
13. Two angles whose sum is 90° are called _____ angles.
14. The middle value of data arranged in order is called the _____.
15. 25% of 80 is _____.

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

No.	Group A		Group B
16.	Additive identity of integers ()	A.	0
17.	Supplementary angles ()	B.	Sum is 180°
18.	Equilateral triangle ()	C.	All three sides are equal
19.	Simple interest ()	D.	$PTR / 100$
20.	Mean ()	E.	Sum of observations $\div$ number of observations
		F.	Sum is 90°

* * *

www.educationobserver.com