

SUMMATIVE EVALUATION – 1
2026-2027

SUB: MATHEMATICS

GRADE: 7

BLUE PRINT

i. Weightage to the content

Sr. No.	Chapter Name	Marks
1.	Large Number Around Us	06
2.	Arithmetic Expression	09
3.	A peek beyond the point	07
4.	Expression using letter-numbers	09
5.	Parallel and Intersecting Lines	08
6.	Number Play	04
7.	Working with Fractions	07

ii. Weightage to the cognitive level as per Revised Bloom's Taxonomy

Bloom's level	Marks	Percentage
Remember	6	12 %
Understand	10	20 %
Apply	10	20 %
Analyze	10	20 %
Evaluate	8	16 %
Create	6	12 %
Total	50	100 %

iii. Weightage to the difficulty level

Difficulty level	Marks	Percentage
Easy	16	32 %
Average	20	40 %
Difficult	14	28 %
Total	50	100 %

iv. Weightage to the question form

Question Form	Marks	Percentage	Suggested item
MCQ/VSA	20 (20×1)	40 %	Multiple-choice questions.
SA	12 (6×2)	24 %	Brief explanation, steps, inference or reason.
LA (long answer have been sub-divided into three sub- questions)	18 (6×3)	36 %	Case, passage, problem, data, judgment or creation.
Total	50	100 %	

v. Weightage to the assessment style

Assessment style	Marks	Percentage	Requirement
Competitive-style competency-based	23	46 %	All items should be mapped to CG/Competency and unfamiliar, integrative or high discrimination formats should be used.

Regular competency-based	27	54 %	All items should be application-oriented, age-appropriate and mapped to the assessed competency.
Total	50	100 %	

SAMPLE QUESTION PAPER

SUMMATIVE EVALUATION - I 2026-2027

GRADE: 7 – English Medium

MARKS: 50

NO. OF QUESTIONS: 32

SUBJECT: MATHEMATICS

SUBJECT CODE: 7MATENG

DURATION: 120 MINS

GENERAL INSTRUCTIONS:

1. All questions are compulsory.
 2. The question paper contains 32 questions.
 3. Q. 1 to Q. 20 are MCQ questions of 1 mark each and are to be marked on the OMR sheet.
 4. Q. 21 to Q. 26 are small answer questions of 2 marks each.
 5. Q. 27 to Q. 32 are large answer questions of 3 marks each.
 6. Internal choice has been provided for one 2 mark and one 3 mark question.
-

Choose the correct alternatives from the options provided below and mark your responses in the OMR sheet provided to you. (20 × 1 = 20 Marks)

1. In the mathematical statement $80 \times 40 = 3200$, the number 3200 is called the
A. factor
B. sum
C. product
D. quotient
2. How many arithmetic operations are present in the expression $5 \times 6 + 4$?
A. One
B. Two
C. Three
D. Four
3. Which of the following represents six hundredths?
A. 0.6
B. 0.06
C. 0.606
D. 0.60
4. State the number of terms in the arithmetic expression $15 - 2 \times 7 + 17$?
A. 1
B. 2
C. 3
D. 4
5. Which of the following is true about parallel lines?
A. They intersect at exactly one point
B. They meet at a large distance
C. They never intersect on a plane
D. They form a right angle when they intersect

6. One Arab Rupees in the Indian system of numeration is
- A. One crore
 - B. One lakh crore
 - C. One thousand crore
 - D. One hundred crore
7. $10 + 5 \times \square = 20$
- A. 6
 - B. 4
 - C. 2
 - D. 1
8. Reeva has 36 paise in her Piggy bank. She wants to write this amount in rupees. Which of the following correctly represents 36 paise in rupees?
- A. ₹0.036
 - B. ₹0.36
 - C. ₹3.6
 - D. ₹36
9. Jolen had ₹100. He bought 4 books at ₹15 each and 2 pens at ₹5 each. Which of the expression represents his remaining money?
- A. $100 - 4 \times 15 + 2 \times 5$
 - B. $(100 - 4) \times 15 + 2 \times 5$
 - C. $100 - (4 \times 15 + 2 \times 5)$
 - D. $100 - 4 - 15 - 2 - 5$
10. A teacher has $3b$ pencils. She gives $2b$ pencils to one group and another b pencils to a second group. How many pencils are left with the teacher?
- A. 1
 - B. b
 - C. 0
 - D. 10
11. When lines intersect each other, they form angles at the point of intersection. Rahul measured one angle at an intersection of two lines as 70° . The measure of its vertically opposite angle is
- A. 70°
 - B. 90°
 - C. 110°
 - D. 180°
12. A chart shows numbers from 1 to 100 having 10 numbers equally distributed in each row. Then the number that is exactly below 83 is
- A. 43
 - B. 73
 - C. 93
 - D. 103

13. Given an arithmetic expression $(3 \times 5) + (6 \times 4) + (5 \times 4) + (2 \times 5)$, the term that gives the highest product is
- A. 3×5
 - B. 6×4
 - C. 5×4
 - D. 2×5
14. The product of 235 and its reciprocal is
- A. 0
 - B. 1
 - C. 2
 - D. 235
15. The missing number in the given Virahanka sequence 1, 1, 2, 3, 5, 8, 13, __, 34, 55, is
- A. 21
 - B. 19
 - C. 27
 - D. 30
16. Riya is x years old. Her brother is 3 years older to her and sister is 2 years younger to Riya. The expression showing the relation between the ages of Riya and her sister is
- A. x
 - B. $x + 3$
 - C. $x - 2$
 - D. $x + 5$
17. Two students write rules for the sequence 6, 10, 14, 18, ...
- Student A: $4n + 2$
- Student B: $4n + 6$
- Who has provided the correct rule for the above sequence?
- A. Only Student A
 - B. Only Student B
 - C. Both Student A and Student B
 - D. None of the above
18. A store owner needs a digital screen to show the total price. The Total price comes from multiplying a 2-digit quantity by a 2-digit item price. What is the maximum number of digits the screen must hold to show any possible total?
- A. 3 digits
 - B. 4 digits
 - C. 5 digits
 - D. 6 digits
19. A number has 5 in the lakhs place, 8 in the thousands place, 2 in the tens place, and all other digits are 0. The correct numeral form of the above statement is
- A. 5,80,020
 - B. 5,08,020
 - C. 5,00,820
 - D. 5,08,200

20. If a snail crawls half a metre in one hour, how far will it crawl in two-third of an hour?

- A. $\frac{1}{6}$
- B. $\frac{1}{3}$
- C. $\frac{3}{5}$
- D. 3

Attempt the following

(6 × 2 = 12 marks)

21. Pawan is reading a story book that has 300 pages. He read $\frac{1}{3}$ of the pages on Saturday and $\frac{2}{5}$ of the pages on Sunday. How many more pages does he need to finish the storybook?

22. Rohit bought 6 pens for ₹10 each and 10 pencils each for ₹4. Write this situation as an arithmetic expression and evaluate it.

23. A company donates ₹12,48,975 of furniture and spends ₹8,76,230 on construction of additional room to a school as a CSR initiative. Estimate the total expenditure by rounding off each amount to the nearest thousand.

OR

Observe the given number 4703278. Insert commas correctly as per the Indian Numeral System and write its number name in the Indian Numeral System.

24. In the expression $2 - 3 \times 1 + 10$, Student 'A' identifies 3 terms and Student 'B' identifies 4 terms. Who has identified correctly? Find the value of the above arithmetic expression.

25. Neha says that adding an even number to another even number always changes parity. Is she correct? Justify your answer with a suitable example.

26. Evaluate the location of the number 8.654 on a magnified number line and determine whether it represents the decimal accurately.

Attempt the following

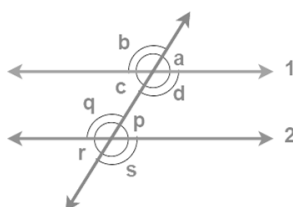
(6 × 3 = 18 Marks)

27. Simplify the following expressions

- a) $a - b + a + b$
- b) $3m + n - (m + n)$
- c) $6x + 4y - (2x - y - 7)$

28. In the given figure, identify the type of angles formed by the pair of angles labelled as:

- a) $\angle a$ and $\angle p$
- b) $\angle d$ and $\angle q$
- c) $\angle a$ and $\angle c$



29. A School is building square green houses in a straight row to save money, the green houses are built next to each other sharing a side wall.
- One greenhouse needs 4 walls
 Two greenhouses need 7 walls
 Three greenhouses need 10 walls
- Find the simple pattern of rule to calculate the total number of walls needed for any number of greenhouses.
 - Using your rule find exactly how many walls are needed to build 12 green houses.
 - Find the number of common walls of 12 greenhouses.
- 30.a) A rectangular solar panel having dimensions $3\frac{3}{4}$ m and $2\frac{1}{3}$ m needs to be installed on the roof of a house. Find the area occupied by a single solar panel over the roof.
- b) Yash has $\frac{15}{4}$ m of a ribbon. Write this length in the form of a mixed fraction.
31. a) Create a design of a house using only parallel and intersecting lines.
- b) Label any one pair of parallel and one pair of intersecting lines in your design.
- c) Name and label any one type of angle made by the intersecting lines in your design.
32. Using digits from 0-9 fill in the boxes to create the largest possible sum

$$\begin{array}{r}
 \square\square.\square \\
 + \square\square.\square \\
 \hline
 \square\square.\square
 \end{array}$$

OR

Create a 3-panel comic strip showing how $\frac{6}{10} = 0.6$

THE END

MODEL ANSWER KEY

1. C→ product	6. D→one hundred crore	11. A → 70°	16. C → x – 2
2. B→two	7. C → 2	12. C → 93	17. A → Only student A
3. B→0.06	8. B→ 0.36	13. B → 6 × 4	18. B → 4 digits
4. C→3	9. C→ 100-(4x15+2x5)	14. B → 1	19. B → 5,08,020
5. C→they never intersect on a plane	10. C→0	15. A →21	20. B → 1/3

21	The number of page read on Saturday= $\frac{1}{3}$ x 300 = 100 pages	$\frac{1}{2}$
	The number of page read on Sunday= $\frac{2}{5}$ x 300 = 120 pages	$\frac{1}{2}$
	Total number of pages read=220 pages Remaining pages to finish=300-220=80	$\frac{1}{2}$
	Pawan needs to read 80 more pages to finish the book	$\frac{1}{2}$
		02
22	$6 \times 10 + 10 \times 4$	01
	$6 \times 10 + 10 \times 4 = 60 + 40 = 100$	01
		02
23	Rounding off ₹12,48,975 → ₹12,50,000	$\frac{1}{2}$
	Rounding off ₹8,76,230 → ₹8,80,000	$\frac{1}{2}$
	Total = ₹21,30,000	$\frac{1}{2}$
	∴ The total expenditure by rounding off is ₹21,30,000	$\frac{1}{2}$
		02
	OR	
	47,03,278	01
	Forty-seven lakhs three thousand two hundred and seventy-eight	01
		02

24	Student A	1
	$\begin{array}{l} 2 - 3 \times 1 + 10 \\ = 2 - 3 + 10 \end{array} \quad \left. \begin{array}{l} \\ \end{array} \right\}$	$\frac{1}{2}$
	$= 12 - 3 = 9$	$\frac{1}{2}$
		02
25	No	$\frac{1}{2}$
	First even number = 2 and Second even number = 4 $\therefore$ Even number + Even number $= 2 + 4$ $= 6 = \text{Even number}$	$\frac{1}{2} + \frac{1}{2}$
	$\therefore$ So parity never changes.	$\frac{1}{2}$
		02
26	Making 10 divisions between 8 to 9	$\frac{1}{2}$
	Making number line for 8.6 to 8.7	$\frac{1}{2}$
	Making number line for 8.65 to 8.66	$\frac{1}{2}$
	Locate 8.654	$\frac{1}{2}$
		02
27	a) $a - b + a + b$	
	$= a + a - b + b$	$\frac{1}{2}$
	$= 2a$	$\frac{1}{2}$
		01
	b) $3m + n - (m + n)$	
	$= 3m + n - m - n$	$\frac{1}{2}$
	$= 3m - m + n - n$	
	$= 2m$	$\frac{1}{2}$
		01
	c) $6x + 4y - 2x + y + 7$	$\frac{1}{2}$
	$= 6x - 2x + 4y + y + 7$	
	$= 4x + 5y + 7$	$\frac{1}{2}$
		01
28	a) Corresponding angles	01

	b) Alternate interior angle	01
	c) vertically opposite angle	01
		03
29	a) $3n+1$	01
	b) $3(12)+1=37$	01
	c) 11 walls	01
		03
30	a) area of rectangle = $3\frac{3}{4} \times 2\frac{1}{3}$	$\frac{1}{2}$
	$= \frac{12+3}{4} \times \frac{6+1}{3}$	
	$= \frac{15}{4} \times \frac{7}{3}$	$\frac{1}{2}$
	$= \frac{35}{4}$	$\frac{1}{2}$
	$= 8\frac{3}{4} \text{ m}$	$\frac{1}{2}$
	b) $\frac{15}{4} = 3\frac{3}{4}$	01
		03
31	a) Creating a design of a house using parallel and intersecting lines	01
	b) Labelling one pair of parallel lines and intersecting lines	01
	c) Naming and labelling one type of angle	01
		03
32	Example $\begin{array}{r} \boxed{8} \ \boxed{7} \cdot \boxed{5} \\ + \ \boxed{1} \ \boxed{2} \cdot \boxed{4} \\ \hline \boxed{9} \ \boxed{9} \cdot \boxed{9} \end{array}$ Each correct sum of digits (vertically) Any other digits from 0-9 to create the largest possible sum 99.9 can be considered	01 x 3=03
	OR	

	Any right representation example of $\frac{6}{10} = 0.6$ can be given full marks	03
--	--	-----------