

Summative Evaluation – 1
2026-2027

GRADE 6

SUB: MATHEMATICS

BLUE PRINT

i. Weightage to the content

Sr. No.	Chapter Name	Marks
1	Pattern in Mathematics	10
2	Lines and Angles	8
3	Number Play	10
4	Data Handling	12
5	Prime Numbers	10

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

Bloom's level	Marks	Percentage
Remember	7	14 %
Understand	10	20 %
Apply	10	20 %
Analyze	10	20 %
Evaluate	8	16 %
Create	5	10 %
Total	50	100 %

iii. Weightage to the difficulty level

Difficulty level	Marks	Percentage
Easy	17	34 %
Average	20	40 %
Difficult	13	26 %
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	20	40 %	All items should be mapped to CG/Competency and unfamiliar, integrative or high discrimination formats should be used.
Regular competency-based	30	60 %	All items should be application-oriented, age-appropriate and mapped to the assessed competency.
Total	50	100 %	

SAMPLE QUESTION PAPER

SUMMATIVE EVALUATION 2026-27

Grade: 6 – English Medium
Subject: MATHEMATICS
Duration: 120 mins

Marks: 50 Marks
Subject Code: 6MATENG
No. of Questions: 32

GENERAL INSTRUCTION

1. All questions are compulsory.
2. The question paper contains 32 questions.
3. Q.1 to Q. 20 is MCQ questions of 1 mark each to be answered on OMR sheet.
4. Q. 21 to 26 are questions of 2 marks.
5. Q. 27 to 32 are questions of 3 marks

Select the most correct option from those given below each statement and mark your responses in the OMR sheet. (20×1 Mark = 20 Mark)

1. If you start with the number 1 and keep adding 2, the sequence you are creating is
A. Even numbers
B. Prime numbers
C. Odd numbers
D. Square numbers
2. The sequence 1, 3, 6, 10, 15 ... is called as
A. A Triangular Numbers
B. Counting Numbers

- C. Squares
- D. Odd Numbers

3. The missing term in the sequence 1, 3, 6, _____, 15 is

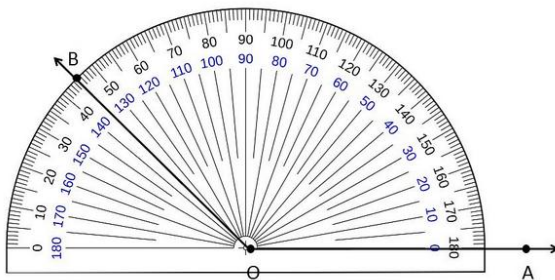
- A. A 25
- B. 9
- C. 10
- D. 8

4. Which type of angle is formed between any two nearest spokes in the logo of Benz?

- A. An acute angle
- B. An obtuse angle
- C. A right angle
- D. None of these



5. Write the measure of the angle ABC.



- A. 145°
- B. 45°
- C. 135°
- D. 140°

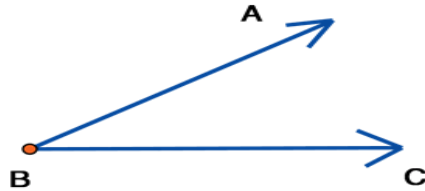
6. A school gate is opened to 105° , the security person wants to reduce the opening to a right angle for safety. By how many degrees should the gate be closed_____

- A. 15°
- B. 25°
- C. 35°
- D. 45°

7. A student wants to draw two lines that even if extended never meet. Which of the following lines should he drawn?

- A. perpendicular lines
- B. intersecting lines
- C. parallel lines
- D. bisecting lines

8. Study the given figure and identify the incorrect statement.



- A. B is the vertex of ABC
- B. BC is an arm of ABC
- C. AB is and arm of ABC
- D. The angle can be written as ACB

9. Number of lines which can be drawn from one point is

- A. 1
- B. 2
- C. 5
- D. Infinite

10. The super cell in the given table is

34	94	86	56	43	20
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- A. 86
- B. 43
- C. 94
- D. 56

11. A clock shows time 10.01, 12:12 11.21 12.51. How many of these are palindrome numbers?

- A. 10.01
- B. 12:12
- C. 11.21
- D. 12.51

12. A sequence follows the Collatz Conjecture: if the number is even, divide it by 2; if the number is odd, multiply by 3 and add 1. If the current term is 32. what will be the next term?
- 16
 - 32
 - 64
 - 96
13. A pictograph represents data in the form of
- Vertical bar
 - Horizontal bar
 - Pictures
 - Dots
14. What is the number of huts represented by the 介介介介 if each symbol represents 25 huts?
- 125
 - 100
 - 150
 - 75
15. The representation of a data by rectangular bars of uniform width is known as
- bar graph
 - pie chart
 - tally mark
 - pictograph

16. Plants grown by four groups are

A-15
B-18
C-18
D-12

Which statement is correct?

- Group A grew the most plants.
 - Group B and C grew the same height number of plants.
 - Group D grew the most plants.
 - All groups grew an equal number.
17. Riya says that a number divides 20, 40 and 60 exactly, which of the following number could it be?

- A. 12
- B. 15
- C. 20
- D. 25

18. In a treasure hunting game, Jeetendra has kept treasures under the tiles numbered 24 and 60. What jump sizes will land on both the numbers?

- A. 18
- B. 12
- C. 15
- D. 120

19. A student writes these as the prime factorization of 24. which of the following is correct?

- A. $2 \times 2 \times 2 \times 3$
- B. $2 \times 3 \times 4$
- C. 3×8
- D. 6×4

20. I am a number. I am greater than 20, I am less than 30, I have exactly two factors. Who am I?

- A. 24
- B. 25
- C. 27
- D. 23

Answer the following questions:

(6 × 2 Marks = 12 Marks)

21. Ram is stacking books in a pyramid shape. The first row has 1 book, the second row has 3 books, third row has 6 books. If he continues this pattern. How many books will be in the fifth row?

22. You are filling a jar with marbles. Each time you add 3 more marbles than before. If you start with 2 marbles, how many marbles will you have after 5 rounds?

23. The school surveyed students to plan the Mid-Day Meal menu. The results are shown below

Meal	Number of students
Pulao	20
Bhaji Pao	18
Idli	12

a) Which meal should the school prepare in the largest quantity?

b) How many more students preferred Pulao than Idli?

24. Using a protractor, draw $\angle ABC = 75^\circ$ and state its type.

25. Solve the following

- A shop has 3 price tags Rs. 25, Rs 40, Rs 60. Make Rs 75 using each tag only once?
- A journey includes distances of 298km, 405km, 612 km. Estimate the total distance to the nearest hundred.

26. A school has 6 rows of 48 chairs and 4 rows of 36 chairs. Find the total number of chairs in the school.

Answer the following questions.

(6 x 3 Marks = 18 Marks)

27. A shoe store employee records the shoe sizes and the number of pairs sold every day. On Tuesday, he sold 60 pairs. His record for the day is shown below.

Shoe size	Number of pairs sold
4	
5	
6	
7	
8	

- Which shoe size has been sold the most?
- The price of shoe size 8 is ₹ 800. How much money had he collected by selling the shoe size 8.
- The shopkeeper sold 13 pairs of size 8 on Tuesday. If he sells 7 more pairs on Wednesday at ₹800 per pair, how much money will he collect?

28. A shopkeeper has 120 red pencils and 84 blue pencils. Find the prime factors of 120 and 84. Identify their common prime factors, and determine the greatest number of equal groups that can be made using both types of pencils.

29. Number of children in six different classes are given below.

Grade	Number of children
5	25
6	40
7	50
8	35

- a) Draw a bar graph for the given data.
- b) Which class has the highest number of students?
- c) How many more students are there in grade 7 than in grade 5?

30. Sonu had few cards with numbers that contain triangular sequence numbers. Now he adds up pair of these consecutive triangular numbers as.

1	+	3	=	A
3	+	6	=	B
6	+	10	=	C

On the basis of above observation, answer the following questions.

- a) Write triangular numbers.
 - b) Find value of A, B, and C.
 - c) Name the sequence obtained by A, B, C?
31. Sam is exploring interesting number patterns. He writes the following digits 1,3,5,7,9 only once. Based on the information, answer the following question.
- a) Write the greatest 5- digit number and the smallest number.
 - b) Find the difference between the greatest and smallest number formed.
 - c) Using the number obtained by difference, find the sum of digits.
32. Sunita is playing with stickers having following numbers on it.

352				1331
	6025	3008	17	
				56

Help her to explore divisibility rule by using divisibility

- a) Which of the above stickers are divisible by 2?
- b) Which of the sticker is divisible by 5?
- c) Write a number which has only one repeated prime number as a factor.

OR

32. The age of my grandfather is a prime number greater than 50, but less than 70. He is older than 50. The sum of the digits of his age is also a prime number. When a multiple of 13 is added to his age, the result is 100. How old is he?

THE END

