Model Question Paper prepared by www.educationobserver.com

SUMMATIVE ASSESSMENT – TERM II, 2026–27

MATHEMATICS (English Medium)

SET 1

Standard: VIII **Time: 1½ Hours**

Total Score: 40

Instructions

- Use the first 15 minutes to read the questions and think about the answers.
- There are 16 questions, split into four sections A, B, C and D.
- Answer all questions; but in questions of the type A or B, answer only one of them.
- You can answer the questions in any order, writing the correct question number.
- Answers must be explained wherever necessary.

Section A

This section has 4 questions of score 1 each. Select the correct answer. **(4 × 1 = 4)**

1. Seven added to three times a number gives 25. What is the number? (1)

A) 4 B) 5 C) 6 D) 7

2. Which of the following gives −3 as the answer? (1)

A) 5 − 8 B) −5 − 8 C) 8 − 5 D) −8 + 11

3. The product 35 × 23 is found using the table below. Find the missing number. (1)

×	**20**	**3**
30	600	90
5	100	……

A) 15 B) 35 C) 150 D) 8

4. Read the following statements. (1)

Statement I: The perpendicular from the centre of a circle to a chord bisects the chord.

Statement II: Chords at equal distances from the centre of a circle have equal lengths.

A) Statement I is true, Statement II is false.

B) Statement I is false, Statement II is true.

C) Both statements are true, Statement II is the reason for Statement I.

D) Both statements are true, Statement II is not the reason for Statement I.

Section B

This section has 4 questions of score 2 each. **(4 × 2 = 8)**

5. The price of 4 pens and 3 notebooks is 170 rupees. The price of a notebook is 30 rupees.

i) What is the price of 3 notebooks? (1)

ii) What is the price of a pen? (1)

6. Draw an angle of 75° using a ruler and compass. (2)

7. Write the decimal form of 9/40. (2)

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8. In a quiz, 4 marks are given for each correct answer and 1 mark is subtracted for each wrong answer. Rahul answered all 15 questions and 11 of them were correct. How many marks did he get? (2)

Section C

This section has 4 questions of score 3 each. **(4 × 3 = 12)**

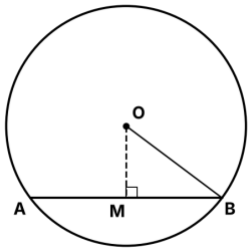
9. A line AB is divided in the ratio 1 : 2 : 3 by the points P and Q (in the order A, P, Q, B).

i) If AB = 24 cm, what is the length of AP? (1)

ii) What is the length of PQ? (1)

iii) If instead QB = 18 cm, what is the length of AB? (1)

10 A. In the figure, O is the centre of the circle. The radius is 10 cm and the chord AB is 16 cm long. OM is perpendicular to AB.



i) What is the length of AM? Why? (1)

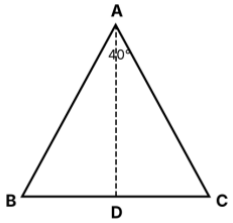
ii) Calculate the distance of the chord from the centre. (2)

OR

10 B. Prove that the perpendicular from the centre of a circle to a chord bisects the chord. (3)

11. Draw a rhombus with diagonals 8 cm and 6 cm. Measure and write the length of its side. (3)

12 A. In triangle ABC, AB = AC and ∠A = 40°. D is the midpoint of BC.



i) What is ∠B? (1)

ii) What is ∠C? (1)

iii) What is ∠ADB? Why? (1)

OR

12 B. In the quadrilateral ABCD, AB = AD and CB = CD.

i) Prove that triangles ABC and ADC are congruent. (2)

ii) Prove that the diagonal AC bisects ∠A. (1)

Section D

This section has 4 questions of score 4 each. **(4 × 4 = 16)**

13. Draw a triangle with two sides 5 cm and 6 cm and the angle between them 60°. Draw its circumcircle. (4)

14 A. A mother is 26 years older than her daughter. After 4 years, the mother's age will be three times the daughter's age.

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	Age now	**Age after 4 years**
Daughter	x	……
Mother	x + 26	……

i) Complete the table. (1)

ii) Write the relation between their ages after 4 years using algebra. (1)

iii) What are their ages now? (2)

OR

14 B. A 50 cm long wire is bent into a rectangle whose length is 5 cm more than its breadth.

i) What is the sum of the length and the breadth? (1)

ii) Form an equation and find the length and the breadth. (3)

15 A. A 40 litre mixture contains milk and water in the ratio 5 : 3.

i) How many litres of milk and water are there in it? (2)

ii) How much water should be added to make the ratio 5 : 4? (2)

OR

15 B. The scale of a map is 1 : 50 000.

i) What actual distance, in kilometres, does 3 cm on the map represent? (2)

ii) Two towns are 6 km apart. How far apart will they be on the map? (2)

16. The temperature at a hill station at 6 a.m. is −4 °C. After that it rises by 3 °C every hour.

i) What will be the temperature at 8 a.m.? (1)

ii) After how many hours will it be 11 °C? (1)

iii) Write an expression for the temperature after h hours. (1)

iv) Is the temperature after 1 hour above or below 0 °C? Find it. (1)

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