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SUMMATIVE ASSESSMENT – TERM II, 2026–27

MATHEMATICS (English Medium)

SET 2

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. Five less than twice a number is 17. What is the number? (1)

A) 9 B) 10 C) 11 D) 12

2. Which of the following gives 4 as the answer? (1)

A) 3 − 7 B) −3 − 7 C) −3 + 7 D) −7 − 3

3. The product 42 × 15 is found using the table below. Find the missing number. (1)

×	**10**	**5**
40	400	……
2	20	10

A) 200 B) 20 C) 80 D) 45

4. Read the following statements. (1)

Statement I: Equal chords of a circle are at equal distances from the centre.

Statement II: The longest chord of a circle is its diameter.

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 3 bags and 2 umbrellas is 1900 rupees. The price of an umbrella is 350 rupees.

i) What is the price of 2 umbrellas? (1)

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

6. Draw an angle of 22½° using a ruler and compass. (2)

7. Write the decimal form of 11/8. (2)

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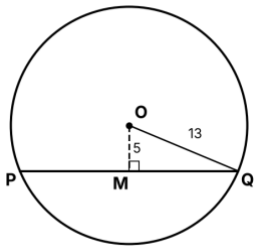
8. A shop made a profit of 500 rupees on Monday, a loss of 800 rupees on Tuesday and a profit of 200 rupees on Wednesday. Using positive and negative numbers, find the overall profit or loss for the three days. (2)

Section C

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

9. A rope 45 m long is cut into three pieces in the ratio 2 : 3 : 4. Find the length of each piece. (3)

10 A. In the figure, O is the centre of the circle. The radius is 13 cm, and the chord PQ is 5 cm away from the centre.



i) Find the length of PM. (2)

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

OR

10 B. Prove that the line joining the centre of a circle to the midpoint of a chord is perpendicular to the chord. (3)

11. Draw a rhombus of side 5 cm with one angle 60°. Measure and write the length of its shorter diagonal. (3)

12 A. In triangle PQR, PQ = PR and ∠Q = 65°. S is the midpoint of QR.

i) What is ∠R? (1)

ii) What is ∠P? (1)

iii) What is ∠PSQ? Why? (1)

OR

12 B. In triangles ABC and DEF, AB = DE, BC = EF and ∠B = ∠E.

i) Are the triangles congruent? Why? (2)

ii) Write the angle of triangle DEF that is equal to ∠A. (1)

Section D

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

13. Draw a triangle with sides 6 cm, 5 cm and 4 cm. Draw its circumcircle and measure its radius. (4)

14 A. A father is four times as old as his son. After 5 years, he will be three times as old as his son.

	Age now	**Age after 5 years**
Son	x	……
Father	4x	……

i) Complete the table. (1)

ii) Write the relation between their ages after 5 years using algebra. (1)

iii) Find their present ages. (2)

OR

14 B. The perimeter of a rectangle is 64 cm. Its length is 4 cm less than twice its breadth.

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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. For a construction work, cement and sand are mixed in the ratio 1 : 4. A total of 50 bags are used.

i) How many bags of cement and of sand are used? (2)

ii) To make the ratio 1 : 5 with the same amount of cement, how many more bags of sand are needed? (2)

OR

15 B. A model of a car is made in the ratio 1 : 40.

i) The model is 10 cm long. What is the actual length of the car in metres? (2)

ii) The car is 1.6 m high. What is the height of the model? (2)

16. A diver is 12 m below the surface of the sea (−12 m). He rises 3 m every minute.

i) Where will he be after 2 minutes? (1)

ii) After how many minutes will he reach the surface? (1)

iii) Write an expression for his position after t minutes. (1)

iv) Where will he be after 1 minute? Is it above or below the surface? (1)

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