

**Class: VIII**  
**SUMMATIVE ASSESSMENT TERM II 2025-26**  
**MATHEMATICS**

**Time: 1 ½ Hrs.**  
**Score: 40**

**Instructions:**

- Use the first 15 minutes to read the questions and think about answers.
  - Answer all questions; but in questions of the type A or B you need answer only one of those.
  - You can answer the questions in any order, writing the correct question number.
  - Answers must be explained, whenever necessary.
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**Section A**

**This section has 4 questions of score 1 each. Select the correct answer.**

1. What is the result of  $-8 + 3$ ? A)  $-11$  B)  $5$  C)  $-5$  D)  $11$
  2. Read the given statements regarding decimal forms.
    - **Statement I:** The decimal form of  $\frac{1}{3}$  is a terminating decimal.
    - **Statement II:**  $\frac{1}{3} = 0.333\ldots$  Choose the correct answer from those given below. A) Statement I is true, Statement II is false. B) Statement I is false, Statement II is true. C) Both statements are true. D) Both statements are false.
  3. If the diameter of a circle is 8 cm, what is its radius? A) 16 cm B) 4 cm C) 8 cm D) 2 cm
  4. If  $3x = 18$ , find the value of  $x$ . A) 6 B) 15 C) 21 D) 54
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**Section B**

**This section has 4 questions of score 2 each.**

5. Draw a line  $AB$  of length 6 cm. Using a ruler and compass, draw the perpendicular bisector of this line.
6. In a class, the ratio of boys to girls is  $3 : 4$ . If there are 21 boys, how many girls are there?

7. Find the missing number in the pattern: (i)  $5 - 3 = 2$  (ii)  $3 - 5 = -2$  (iii)  $5 - 8 = \dots$

8. Write the fraction  $\frac{1}{8}$  in decimal form.

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## Section C

**This section has 4 questions of score 3 each.**

9. Raju's age is 3 times his son's age. After 10 years, the sum of their ages will be 60. (i) Take the son's current age as  $x$ . Write an expression for Raju's current age. (ii) Write the equation based on the sum of their ages after 10 years. (iii) Find their current ages.
10. **A)** In a circle, a chord of length 8 cm is drawn. The distance from the centre to the chord is 3 cm. (i) Draw a rough figure representing this. (ii) Calculate the radius of the circle using Pythagoras theorem.

**OR**

- B)** Construct a triangle with sides 4 cm, 5 cm, and 6 cm. Draw the circumcircle of this triangle.
11. The sides of a triangle are in the ratio  $3 : 4 : 5$  and its perimeter is 36 cm. (i) Find the lengths of the sides of the triangle. (ii) Is this a right-angled triangle? Why?
12. **A)** Write the following as decimals: (i)  $\frac{3}{10} + \frac{5}{100}$  (ii)  $\frac{1}{2} + \frac{1}{4}$

**OR**

- B)** (i) What is the value of  $\frac{1}{10} + \frac{1}{100} + \frac{1}{1000}$  in decimal form? (ii) Write the decimal form of  $\frac{1}{9}$ .
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## Section D

**This section has 4 questions of score 4 each.**

13. **A)** (i) Draw an angle of  $60^\circ$ . (ii) Construct the bisector of this angle to get an angle of  $30^\circ$ . (iii) Prove that any point on the angle bisector is equidistant from the arms of the angle.

**OR**

- B)** Draw a rhombus with diagonals of lengths 6 cm and 8 cm. Measure the length of one side.
14. A rectangle has a perimeter of 50 meters. The length is 5 meters more than the width. (i) If the width is taken as  $w$ , write the expression for the length. (ii) Form an equation for the perimeter. (iii) Find the length and width of the rectangle.
15. **A)** (i) Calculate:  $-10 - 5$ . (ii) Calculate:  $-10 - (-5)$ . (iii) An object is thrown upwards with a speed of 49 m/s. The speed decreases by 9.8 m/s every second. Using the equation  $v = 49 -$

$9.8t$ , find the speed at  $t = 6$  seconds. (Interpret the negative sign).

**OR**

**B)** (i) Solve:  $3x + 5 = 20$ . (ii) From a point on a number line, if you move 4 units right and then 7 units left, at which number will you arrive if you started at 0? Write the mathematical operation.

16. The ratio of the length and width of a rectangle is  $3 : 2$ . (i) If the length is 18 cm, what is the width? (ii) If the rectangle is enlarged such that the ratio remains  $3 : 2$  and the new width is 10 cm, what is the new length? (iii) Prove that if the sides of a rectangle are in the ratio  $a : b$ , its area will be a multiple of  $ab$ .