Name of School.....

	Half Yearly Examination		
	Sesson – 2024-25		
Class – 8	Subject – Maths	M.M. 50	

All questions are compulsory.

1. Write the additive inverse each of the following.

(i)
$$\frac{2}{8}$$
 (ii) $\frac{-5}{9}$

2. Solve the following equations:

(i) x - 2 = 7 (ii) y + 3 = 10

- 3. Amina thinks of a number and subtracts from it. She multiplies the result by 8. The result now obtained is 3 times the same number she thought of. What is the number?
- 4. Find the measure of each exterior angle of a regular polygon of (i) 9 sides
 - (ii) 15 sides
- 5. State whether True or False.
 - (a) All rectangles are squares
 - (b) All rhombuses are parallelograms
 - (c) All squares are rhombuses and also rectangles
 - (d) All squares are not parallelograms
- 6. Construct the following qua-drilaterals.
 - (i) Quadrilateral MORE
 - MO = 6 cm
 - OR = 4.5 cm
 - ∠M = 60°

∠O = 105°

∠R = 105°

- 7. List the outcomes you can see in these experiments.
 - (a) Spinning a wheel
 - (b) Tossing two coins together



8. Without adding, find the sum.

(ii) 1 + 3 + 5+ 7 + 9 + 11 + 13 + 15 + 17 + 19

9. Which of the following numbers are not perfect cubes?

(i) 216 (ii) 128

- 10. Find the smallest number by which each of the following numbers must be divided to obtain a perfect cube.
 - (i) 81 (ii) 128
- 11. Convert the following ratios to percentages. (a) 3 : 4 (b) 2 : 3
- 12. Calculate the amount and compound interest on

(a) ₹ 10,800 for 3 years at 121212% compounded annually.

(b) ₹ 18,000 for 21212 years at 10% per annum compounded annually.

- 13. Identify the terms, their coefficients for each of the following expressions.
 (i) 5xyz² 3zy (ii) 1 + x + x²
- 14. Multiply the binomials

(i) (2x + 5) and (4x - 3) (ii) (y - 8) and (3y - 4)