



# ANGEL'S PUBLIC SCHOOL

## SAMPLE PAPER

HALF YEARLY EXAM SESSION 2025 – 26

CLASS – VII

TIME: 3 HRS

SUBJECT : Mathematics

M.M:80

### General Instructions :

- (a) Question paper is divided into 4 sections A,B,C and D.
- (b) Section – A comprises 10 questions of 1 mark each.
- (c) Section – B comprises 10 questions of 2 marks each.
- (d) Section – C comprises 6 questions of 4 marks each. Attempt any 5.
- (e) Section – D comprises 8 questions of 5 marks each. Attempt any 6.

### SECTION – A

1. Which is the equation for statement “ Ten times a is 70”?  
(a)  $70a = 10$                       (b)  $10a = 70$                       (c)  $\frac{10}{a} = 70$                       (d)  $\frac{70}{a} = 10$
2. Which is the statement for equation “  $x + 5 = 7$ ”?  
(a) Sum of x and 5 is 7              (b) Sum of 5 and 7 is x  
(c) Sum of x and 7 is 5              (d) Sum of y and 35 is 7
3. What is the value of x if  $x + 5 = 15$  :  
(a)  $x = 10$                       (b)  $x = 20$                       (c)  $x = 3$                       (d)  $x = 45$
4. What is the complement of  $20^\circ$  ?  
(a)  $160^\circ$                       (b)  $110^\circ$                       (c)  $70^\circ$                       (d)  $140^\circ$
5. What is the supplement of  $50^\circ$  ?  
(a)  $40^\circ$                       (b)  $50^\circ$                       (c)  $100^\circ$                       (d)  $130^\circ$
6. Identify the pair of complementary angles :  
(a)  $60^\circ, 70^\circ$                       (b)  $50^\circ, 40^\circ$                       (c)  $130^\circ, 50^\circ$                       (d)  $140^\circ, 40^\circ$
7. Convert 0.75 to percents :  
(a) 25%                      (b) 35%                      (c) 55%                      (d) 75%
8. Fill ups  $64\% + 20\% + \underline{\hspace{1cm}} = 100\%$   
(a) 26%                      (b) 36%                      (c) 16%                      (d) 46%
9. What is the formula for ‘Amount’?  
(a)  $P + I$                       (b)  $P + R$                       (c)  $P + T$                       (d)  $P + R + I$
10. What is the value of  $-31 + 16$  ?  
(a) 47                      (b) -15                      (c) 15                      (d) -47

### SECTION – B

11. For any positive integer a, what is  $(-1) \times a$  equal to?
12. Determine the integer whose product with  $(-1)$  is  $-16$
13. Solve  $5x = 25$

14. Solve  $4x - 2 = 18$
15. Solve  $4(m + 3) = 18$
16. Can two obtuse angles be supplementary?
17. Can two right angles be supplementary?
18. Find 15% of 250
19. Convert  $\frac{5}{4}$  to percent.
20. Convert 150% to decimal form and simplest form.

### **SECTION – C (ATTEMPT ANY FIVE)**

21. Write a pair of negative integers whose difference gives 8
22. Write the following equations in statement form.  
 (a)  $2m = 7$                       (b)  $\frac{m}{5} = 3$                       (c)  $m - 7 = 3$
23. Set up an equation, if Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age.
24. In a city, 30% are female, 40% are males and remaining are children. What percent are children?
25. A school team won 6 games this year against 4 games won last year. What is the percent increase
26. The cost of flower vase is Rs 120. If the shopkeeper sells it at a loss of 10% Find the price at which it is sold.

### **SECTION – D (ATTEMPT ANY SIX)**

27. Verify that  $a \div (b + c) \neq (a \div b) + (a \div c)$  for each of the following values of a, b and c.  $a = 12$ ,  $b = -4$ ,  $c = 2$
28. In a test (+5) marks are given for every correct answer and (–2) marks are given for each incorrect answer.  
 (i) Radhika answered all the questions and scored 30 marks, through she got 10 correct answers  
 (ii) Jay also answered all the questions and scored (–12) marks through he got 4 correct answers.  
 How many incorrect answers had they attempted?
29. Solve (i)  $3n + 7 = 25$   
 (ii)  $2p - 1 = 23$
30. Raju's father's age is 5 years more than three times Raju's age. Find Raju's age, if his father is 44 years old.
31. Find the angle which is equal to its complement.
32. A shopkeeper bought a chair for Rs 375 and sold it for Rs 400. Find the gain percentage.
33. Rs 3500 is given at 7% p.a rate of interest. Find the interest which will be received at the end of 2 years.
34. On a certain sum the interest paid after 3 years is Rs 450 at 5% rate of interest per annum. Find the sum.