

ANGEL'S PUBLIC SCHOOL

SAMPLE PAPER

PERIODIC TEST – I SESSION 2021 – 22

CLASS – VIII

TIME: 1.5 HRS

SUBJECT: MATHEMATICS

M.M:50

GENERAL INSTRUCTIONS:

- (a) The question paper is divided into 4 sections A,B,C and D.
- (b) Section – A comprises 5 questions of 1 mark each.
- (c) Section – B comprises 5 questions of 2 marks each.
- (d) Section – C comprises 6 questions of 3 marks each. Attempt any 5.
- (e) Section – D comprises 7 questions of 4 marks each. Attempt any 5.

SECTION – A

1. Solve: $2x+3= 13$
2. Define a regular polygon.
3. Write the additive and multiplicative inverse of -9 .
4. Is 0.3 the multiplicative inverse of $\frac{10}{3}$?
5. What are natural numbers and whole numbers?

SECTION – B

6. Verify that $-(-x) = x$ for $x = \frac{11}{2}$.
7. The number of boys and girls in a class are in the ratio $7:5$. The number of boys is 8 more than the number of girls. What is the strength of the class?
8. A rational number is such that when you multiply it by $\frac{5}{2}$ and add $\frac{2}{3}$ to the product, you get $\frac{-7}{12}$. What is the number?
9. Solve: $14y- 8= 13$
10. Write the distributive property.

SECTION – C

11. Solve the linear equation: $3(t-3) = 5(2t+1)$
12. The ages of Hari and Harry are in the ratio $5: 7$. Four years from now, the ratio of their ages will be $3:4$. Find their present ages.

13. A grandfather is ten times older than his granddaughter. He is also 54 years older than her. Find their present ages.
14. Find five rational numbers between $\frac{2}{3}$ and $\frac{4}{5}$.
15. A positive number is 5 times another number. If 21 is added to both the numbers, then one of the new numbers becomes twice the other number. What are the other numbers?
16. Solve the linear equation: $\frac{2}{3}(x + 21) = \frac{3}{2}(x + 3)$

SECTION – D

17. Solve the linear equation: $15(y - 4) - 2(y - 9) + 5(y + 6) = 0$
18. (i) Write five rational numbers less than -5 .
(ii) Write 5 rational numbers greater than -3 .
19. Represent the following on the number line.

$$\frac{-2}{3}, \frac{-4}{5}, \frac{-6}{5}, \frac{-8}{5}.$$

20. (a) Write the additive inverse of $\frac{2}{5}$.
(b) Write the multiplicative inverse of $\frac{1}{5}$.

21. Solve the following equation and check your answer.

$$3(t-6) = 2(t-7)$$

22. Solve: $3z+12= 2z+ 18$

23. The base of an isosceles triangle is $\frac{4}{3}$ cm. The perimeter of the triangle is $4\frac{2}{15}$ cm.

What is the length of either of the remaining equal sides?