Name:

Test 1 - Class 7

Total Mark - 30
Time - 50 Mins
Date - 04-Sep-2023

I. **Four alternatives are given for each of the following questions/incomplete statement. Choose the correct alternative and write the complete answer along with its letter of alphabet** **4x1=4**

1. Which of the following pair of angles are supplementary?
(a) 48°, 42° (b) 75°, 105° (c) 60°, 60° (d) 179°, 2°

2. –1 is not a solution of the equation
(a) x+1=0 (b) x–1=2 (c) 2y+3=1 (d) 2p+7=5

3. Which of the following rational numbers is in standard form?
(a) 20/30 (b) 10/4 (c) 1/2 (d) 1/-3

4. If two lines are intersected by a transversal, then the number of pairs of interior angles on the same side of the transversal is
(a) 1 (b) 2 (c) 3 (d) 4

4x1=4

II. **Answer the following questions.**

5. Two lines in a plane which never meet at any point are called _____.

6. The root of the equation y – 13 = 9 is _____.

7. There are _____ number of rational numbers between two rational numbers.

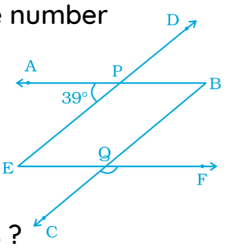
8. Angles of a linear pair are _____ as well as _____ .

4x2=8

III. **Answer the following questions.**

9. On subtracting 13 from 3 times of a number, the result is 8. Find the number

10. In Fig. AB || EF, ED || CB and ∠APE is 39°. Find ∠CQF.



11. List three rational numbers between 4/5 and 5/6 .

12. Which of the following pairs represent equivalent rational numbers ?

(i) $\frac{7}{12}$ and $\frac{28}{48}$ (ii) $\frac{-2}{-3}$ and $\frac{-16}{24}$

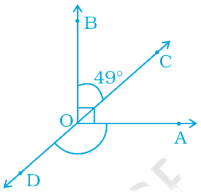
IV. **Answer the following questions.** **3x3=9**

13. fill in the boxes with the correct symbol >,< or =.

$\frac{3}{7} \square \frac{-5}{6}$ $\frac{-9}{7} \square \frac{4}{-7}$ $\frac{5}{6} \square \frac{8}{4}$

14. The length of a rectangle is two times its breadth. Its perimeter is 60 cm.
(a) If the breadth of rectangle is x cm, the length of the rectangle is?
(b) Perimeter in terms of x is?
(c) The equation formed and the solution is?

15. In Fig. OB is perpendicular to OA and ∠BOC = 49°. Find ∠AOD.



V. **Answer the following questions.** **1x5=5**

16 In Fig. 5.53, find the value of ∠BOC, if points A, O and B are collinear.