

**Class Notes**

**Class: VII**

**Topic: Revision Worksheet**

**Subject: Mathematics**

**Multiple choice questions**

**1. The denominator of the rational number – 9 is**

- (a) -9            (b) 9            (c) -1            (d) 1

**2. If  $\frac{-7}{11} = \frac{14}{?}$ , then? =**

- (a) 11            (b) -11            (c) 22            (d) -22

**3. Which of the following is a negative rational number?**

- (a)  $\frac{1}{2}$             (b)  $\frac{3}{4}$             (c)  $\frac{-4}{-5}$             (d)  $\frac{2}{-3}$

**4. The rational number  $\frac{-21}{28}$  in standard form is**

- (a)  $\frac{-3}{4}$             (b)  $\frac{3}{4}$             (c)  $\frac{3}{7}$             (d)  $\frac{-3}{7}$

**5. Which of the following rational numbers is not equivalent to  $\frac{-7}{4}$  ?**

- (a)  $\frac{-14}{8}$             (b)  $\frac{-21}{12}$             (c)  $\frac{-28}{16}$             (d)  $\frac{-7}{8}$

**6. Which of the following is correct?**

- (a)  $\frac{1}{-2} > \frac{-1}{3}$             (b)  $\frac{1}{-2} < \frac{-1}{3}$             (c)  $\frac{1}{-2} = \frac{-1}{3}$             (d) None of these

**7. The sum  $\frac{5}{4} + (\frac{-25}{4}) =$**

- (a) -5            (b) 5            (c) 4            (d) -4

**8.  $\frac{17}{11} - \frac{6}{11} =$**

- (a) 1            (b) -1            (c) 6            (d) 3

**9. The sum  $\frac{-3}{4} + 0 =$**

- (a)  $\frac{3}{4}$             (b)  $\frac{-3}{4}$             (c) 1            (d) 0

**10.  $\frac{-2}{5} \times \frac{-5}{2} =$**

- (a) 1            (b) -1            (c) 2            (d) -5

**11.  $\frac{2}{9} \times \frac{27}{8} =$**

- (a)  $\frac{4}{3}$             (b)  $\frac{3}{4}$             (c) 3            (d) 4

**12.  $\frac{7}{12} \div (\frac{-7}{12}) =$**

- (a) 1            (b) -1            (c) 7            (d) -7

**13. How many rational numbers are there between two rational numbers?**

- (a) 1            (b) 0            (c) unlimited            (d) 100

**14. In the standard form of a rational number, the denominator is always a**

- (a) 0            (b) negative integer            (c) positive integer            (d) 1

**15. To reduce a rational number to its standard form, we divide its numerator and denominator by their**

- (a) LCM            (b) HCF            (c) product            (d) multiple

**16. In  $\Delta XYZ$ , x, y and z denote the three sides. Which of the following is incorrect?'**

- (a)  $x - y > z$             (b)  $x + z > y$             (c)  $x - y < z$             (d)  $x + y > z$

**17. In which of the following cases can a triangle be constructed?**

- (a) Measures of three sides are given.  
 (b) Measures of two sides and an included angle are given.  
 (c) Measures of two angles and the side between them are given.  
 (d) All the above.

**18. Choose the correct option in which a triangle CANNOT be constructed with the given lengths of sides.**

- (a) 3 cm, 4 cm, 5 cm  
 (b) 7 cm, 6 cm, 5 cm

(c) 10 cm, 7 cm, 2 cm

(d) 12 cm, 8 cm, 6 cm

### SUBJECTIVE QUESTIONS

1. Express  $\frac{3}{4}$  as a rational number with denominator:

(i) 36            (ii) - 80

2. Express each of the following rational numbers in its standard form:

(i)  $\frac{-12}{20}$             (ii)  $\frac{-14}{35}$

3. List four rational numbers between  $\frac{5}{7}$  and  $\frac{7}{8}$

4. Represent the following rational numbers on a number line:

(i)  $\frac{-3}{7}$             (ii)  $\frac{7}{8}$

5. Construct a triangle ABC, given that AB = 5 cm, BC = 6 cm and AC = 7 cm.

6. Construct a triangle PQR, given that PQ = 3 cm, QR = 5.5 cm and  $\angle PQR = 60^\circ$ .

7. Construct  $\triangle XYZ$  if it is given that XY = 6 cm,  $m\angle ZXY = 30^\circ$  and  $m\angle XYZ = 100^\circ$ .

8. Construct  $\triangle LMN$ , right-angled at M, given that LN = 5 cm and MN = 3 cm.