

# KENDRIYA VIDYALAYA IIT CAMPUS CHENNAI

## HOLIDAY HOME WORK FOR CLASS VIII

- RECORD MAXIMUM AND MINIMUM TEMPERATURES OF TEN CITIES FOR TEN DAYS FROM ANY NEWS PAPER AND MAKE A TABULAR COLUMN.
  - i. FIND THE ARITHMETIC MEAN, MEDIAN AND MODE FROM THE TABLE FOR
    - a) MAXIMUM TEMPERATURE
    - b) MINIMUM TEMPERATURE
  - ii. REPRESENT ABOVE DATA BY USING BAR GRAPH
    - COMPLETE THE GIVEN WORK SHEETS
- WRITE MULTIPLICATION TABLES FROM 2 TO 16(UPTO 16X16)

## WORKSHEET - 1

### RATIONAL NUMBERS

#### MULTIPLE CHOICE QUESTIONS (1 M)

1. What is the additive inverse of  $-\frac{3}{8}$ ?  
a.  $\frac{3}{8}$  b.  $\frac{8}{3}$  c.  $-\frac{8}{3}$  d. none of these
2. The reciprocal of  $q$  is  
a.  $-q$  b.  $\frac{1}{q}$  c.  $-\frac{1}{q}$  d. none of these
3. Which of the following is neither positive nor negative  
a. 1 b. 0 c. -1 d. 2
4. The product of the additive inverse and the multiplicative inverse of  $-3$  is  
a. 1 b. 0 c. -1 d. -9
5. The reciprocal of the reciprocal of  $\frac{1}{5}$  is  
a.  $\frac{1}{5}$  b. 5 c. 25 d. -5
6. A rational number between  $\frac{1}{2}$  and  $\frac{1}{5}$  is  
a.  $\frac{7}{20}$  b.  $\frac{1}{3}$  c.  $\frac{1}{4}$  d. none of these
7. The multiplicative inverse of 0.9 is  
a.  $\frac{5}{9}$  b.  $\frac{10}{9}$  c.  $\frac{8}{9}$  d.  $\frac{7}{9}$
8. The value of  $\frac{3}{8} - (-\frac{7}{4})$  is  
a.  $\frac{1}{8}$  b.  $2\frac{1}{8}$  c.  $\frac{3}{8}$  d.  $\frac{8}{5}$
9. If we multiply  $\frac{6}{13}$  by the reciprocal of  $-\frac{7}{16}$  then we get  
a.  $\frac{16}{91}$  b.  $-\frac{96}{91}$  c.  $-\frac{91}{16}$  d.  $\frac{96}{91}$
10. How many rational numbers exist between  $-\frac{7}{2}$  and  $-2$ ?  
a. 1 b. 2 c. 3 d. infinite

#### VERY SHORT ANSWERS (2m)

1. Represent  $-\frac{1}{2}$  and  $\frac{3}{4}$  on a number line.
2. Find the rational numbers between  $\frac{1}{2}$  and  $\frac{3}{4}$ .
3. Subtract  $\frac{5}{6}$  from  $-\frac{6}{7}$ .
4. Simplify  $-2\frac{2}{3} \times 1\frac{1}{4}$
5. Find  $-\frac{3}{4} - (-\frac{1}{2})$

### SHORT ANSWER QUESTIONS (3m)

1. Find 3 rational numbers between  $\frac{1}{4}$  and  $\frac{1}{2}$ .
2. Verify that  $-(-x) = x$  for
  - i).  $x = \frac{13}{7}$
  - ii)  $x = -\frac{21}{3}$
3. The sum of two rational numbers is  $-4$ . If one of them is  $-\frac{11}{6}$ , find the other.
4. What should be added to  $\frac{2}{15}$  so as to get  $-\frac{8}{5}$ ?
5. Simplify  $(\frac{2}{3} \times \frac{15}{-16}) - (\frac{7}{12} \times -\frac{24}{35})$

### LONG ANSWER QUESTIONS (4M)

1. Divide the sum of  $-\frac{3}{4}$  and  $-\frac{5}{12}$  by their product.
2. What should be subtracted from  $-\frac{3}{4}$  to get  $-\frac{17}{12}$ ?
3. Subtract the sum of  $-\frac{8}{7}$  and  $-\frac{5}{3}$  from the sum of  $\frac{3}{2}$  and  $-\frac{31}{28}$ .
4. Simplify  $(\frac{5}{7} \times -\frac{14}{15}) + (-\frac{8}{15} \times \frac{3}{-16}) - (\frac{2}{9} \times -\frac{27}{16})$
5. Find 4 rational numbers between  $\frac{2}{5}$  and  $\frac{3}{7}$ .

## WORKSHEET - 2

### LINEAR EQUATIONS IN ONE VARIABLE

#### MULTIPLE CHOICE QUESTIONS (1M)

1. The solution of  $8-3x=-10$  is

- a.  $x=-17$    b.  $x=8$    c.  $x=6$    d.  $x=9$

2. Which of the following the solution of  $2x-2=x+3$

- a.  $x=4$    b.  $x=5$    c.  $x=2$    d.  $x=-2$

3. The solution of  $3+x/4 = 5$  is

- a.  $x=-17$    b.  $x=8$    c.  $x=2$    d.  $x=4$

4. If  $1/3$  of a number is 10 less than the original number then the number is

- a. 30   b. 15   c. 10   d. 27

5. The two consecutive multiples of 3 whose sum is 57 are

- a. 23, 33   b. 27, 30   c. 21, 36   d. 28, 29

6. Five times a number exceeds 60 by 5. The number is

- a. 12   b. 14   c. 13   d. 11

7. If  $50/(x+4) = 5$ , then  $x =$

- a. 5   b. 6   c.  $25/9$    d. 10

8. The sum of two consecutive multiples of 5 is 55. The multiples are

- a. 20, 35   b. 25, 30   c. 32, 35   d. 15, 40

### Very short answer questions (2m)

1. Solve:  
 $2(x + 1) = 3(x + 7)$
2. Solve:  
 $5(x + 3) = 2(x + 7)$
3. Solve:  
 $(x + 3)/5 = (x + 7)/8$
4. Solve:  
 $2x - 3 = x + 2$
5. The perimeter of a rectangle is 13 cm and its width is  $2\frac{3}{4}$  cm. Find its length.
6. Solve:  
 $2y + 9 = 4$

### Short answer questions (3m)

1. Solve:  
 $(x + 1)/3 = (x - 2)/4 + 1/3$
2. Sum of 3 consecutive numbers is 57. Find the numbers.
3. Solve:  
 $x/3 + 5/2 = -3/2$
4. The sum of 3 consecutive multiples of 11 is 363. Find these multiples.
5. Solve:  
 $(x-3)/7 = -14/9$
6. Solve:  
 $x/2 + (3x)/4 - 5x/6 = 2$
7. Arjun is 2 times old as Shriya. 5 years ago his age was 3 times Shriya's age. Find their present age.
8. Solve:  
 $[(x-3)/6]-1 = (6x+1)/3$

### Long answer questions (3m)

1. Solve:  
 $(4 + 3y)/(6y - 2) = -3/5$
2. Solve:  
 $(x + 1)/(2x + 3) = 3/8$