



## REVIEW EXERCISE

1. Write the additive inverse of the following :

(i)  $\frac{-6}{-5}$

(ii)  $\frac{2}{-7}$

(iii)  $\frac{-5}{11}$

2. Find the multiplicative inverse of the following :

(i)  $-17$

(ii)  $\frac{-12}{17}$

(iii)  $\frac{-3}{8} \times \frac{-5}{2}$

3. Find five rational numbers between  $-\frac{2}{5}$  and  $\frac{1}{5}$ .

4. Write three rational numbers greater than  $-3$ .

5. Prove that :  $\left[ -\frac{2}{3} - \left( \frac{4}{-5} \right) \right] - \frac{1}{2} = -\frac{11}{30}$ .

6. Represent  $\frac{5}{3}$  and  $\frac{-5}{3}$  on the number line.

7. By what number should we multiply  $-\frac{8}{13}$  to get the product 32?

8. Simplify using suitable property :

$$\frac{91}{41} \left( -\frac{2}{3} \right) + \left( \frac{4}{3} \right) \frac{91}{41} + \left( -\frac{2}{3} \right) \frac{91}{41}$$

9. If  $x = \frac{1}{7}$ ,  $y = \frac{2}{3}$  and  $z = \frac{-1}{3}$ , verify that,  $x \times (y + z) = (x \times y) + (x \times z)$ .

10. From a cord of 16 m length, two pieces of length  $3\frac{1}{3}$  m and  $2\frac{2}{5}$  m are cut off. Find the length of remaining cord.

11. Evaluate :  $\left| \frac{9}{7} \right| - \left| -\frac{2}{7} \right| + \frac{3}{7} - \left| \frac{4}{-7} \right|$

12. If  $a = -\frac{3}{2}$  and  $b = \frac{4}{5}$ , verify that

(i)  $|a \times b| = |a| \times |b|$       (ii)  $|a - b| \geq |a| - |b|$

13. If  $\frac{4}{9} \div x = -\frac{10}{3}$ , then find the value of  $x$ .



## MENTAL MATHS CORNER

Fill in the blanks :

1. The equation  $5x + 8 = 0$  is an example of ..... equation.
2. The value of the variable, for which an equation is true is called the ..... of the equation.
3. A number which when added to three times of itself gives 20 is .....
4. In a linear equation, the degree of variable is .....
5. A number when multiplied by 4 exceeds itself by 24. The number is .....
6.  $0.4x + 0.5 = 0.3x + 0.6$ , then  $x$  is .....
7. The sum of two numbers which are in the ratio 5 : 7 is 120.  
Then the numbers are ..... and .....
8. If the value of  $x$  is 5, then  $3x + \dots = 20$ .
9. Two consecutive natural numbers whose sum is 55 are ..... and .....
10. The general form of linear equation is  $ax + b = c$ , where  $a \neq \dots$



## REVIEW EXERCISE

1. The sum of two numbers is 43. The difference is 13. Find the numbers.
2. The present ages of husband and wife are in the ratio 4 : 3. Thirty years later, the husband will be 10 years older to her. What are their present ages?
3. The sum of three consecutive multiples of 3 is 333. Find the multiples.
4. Solve and verify your answer :  $\frac{3}{2}(x+2) + 4 = \frac{5x-4}{2} + \frac{5x}{4}$
5. Solve :  $\frac{2x-(7-5x)}{9x-(3+4x)} = \frac{7}{6}$
6. Solve for  $x$  :  $\frac{3}{5x} - \frac{2}{3x} = \frac{1}{10}$
7. Find the value of  $a$ , if  
 $(a+3)(a-3) - a(a+5) = 6$
8. Four-fifths of a number is 10 more than two-thirds of the number. Find the number.
9. Three consecutive integers add up to 54. What are the integers?
10. Solve the linear equation :  $\frac{3x-2}{4} - \frac{2x+3}{3} = \frac{2}{3} - x$

