



**DR. VIRENDRA SWARUP PUBLIC SCHOOL, KALYANPUR**

**SESSION – 2021-22**

**HOLIDAY HOMEWORK**

**SUBJECT : MATHS**

**CLASS : VI**

**Write the expressions for the following statements (Q. No. 1-3) :**

1. Take away the product of 18 and  $y$  from 98.
2. Five times the quantity  $m$  increased by 7.
3. How many days are there in 19 hours ?
4. If  $a = 3$  and  $b = -2$ , then find the value of  $\frac{a+6b}{5a-7b}$ .
5. If  $x = 2$ ,  $y = -1$  and  $z = 3$ , then find the value of  $(x - y)(y - z)(z - x)$ .
6. Solve the following equations using inverse operation method :
  - (i)  $0.3p = 9$
  - (ii)  $\frac{m}{4} = 3\frac{1}{2}$
  - (iii)  $y - \frac{2}{5} = -\frac{6}{5}$
  - (iv)  $x + 9.2 = 10$

Solve the following equations (Q. No.7-8) :

7.  $\frac{5x}{4} - 3.2 = 10.8$
8.  $3w + \frac{7}{5} = 5$
9. The sum of three even consecutive numbers is 86. Find the numbers.
10. 7 times a number decreased by the sum of 1 and 5 equals 22. What is the number ?
11. Convert the following ratios into the simplest form:
  - (i) 45 minutes: 3 hours
  - (ii) 146 days: 2 years
12. In a class, 35 students like cricket, 45 students like badminton and 40 students like football. Find the ratio of
  - (i) Number of students who like football to number of students who like cricket.
  - (ii) Number of students who like badminton to total number of students.
13. In a seminar, the ratio of males and females is 11 : 9. If the capacity of the hall is 2000, find the number of males and females who attended the seminar.
14. Determine if 25, 45, 45 and 63 are in proportion.
15. At a time the length of shadow of a tree of height 5m is 7m. Find the length of shadow of a pole of height 55m.
16. Find which of the following ratios is greater?  
11 : 13 or 23 : 27
17. The weight of 17 books is 42.5 kg. What is the weight of 56 books?
18. 35 boxes contains 4200 pencils. How many boxes are required to contain 14400 pencils ?
19. A rectangular park is 55 m long and 30 m wide. Ramesh goes twenty times round it. How much distance does he cover? What time will he take to travel 20 rounds if he walks at the rate of 3.4 m per second?
20. Find the cost of fencing a rectangular park of length 250 m and breadth 150 m at the rate of Rs. 25.50 perimeter.
21. A piece of string is 150 m long. What will be the length of each side if the string is bent to form :
  - (i) an equilateral triangle
  - (ii) a regular pentagon

22. The area of a square of side 16 cm is same as the area of a rectangle of length 64 cm. What is the breadth of the rectangle?
23. A room is 20 m long and 15 m wide. A square shaped carpet of side length 16 m is laid on the floor. Find the area which is not carpeted.
24. A footpath of length 270 m and breadth 10 m is to be paved with tiles, of length 20 cm and breadth 15 cm. Find the number of tiles that are required. Find the cost of the tiles at the rate of Rs. 750 per hundred.
25. Find the area of the following figures:

