



# Worksheet

Subject: Mathematics

Standard: 7th

1. Solve for the unknown:

(a)  $5x-3=12$

(b)  $16-3(x-7)=-14$

(c)  $-16=-a-2$

(d)  $7(x+3)+2=44$

(e)  $12(3-a)=22$

(f)  $5x+8(2x-9)=5$

(g)  $\frac{x+4}{6}=3$

(h)  $\frac{15}{4x}=\frac{45}{8}$

(i)  $13y=-12y+100$

(j)  $\frac{3x-8}{2x-5}=\frac{1}{3}$

(k)  $\frac{m-17}{2}=2m-7$

(l)  $7-x=\frac{2x-7}{5}$

2. Write the equation and solve :-

(i) Savita's age is 4 years less than that of Rajan. If Santa is 18 years old, what is Rajan's age?

(ii) The attendance of a class today is 32. This is 4 less than the total number of students in the class. What is the total number of students in the class?

(iii) Two numbers are in the ratio 6:5. If the sum of the numbers is 110, find the numbers?

3. Mike finished coloring a picture in  $\frac{7}{12}$  hr. Vaibhar finished coloring picture in  $\frac{3}{4}$  hr. Who worked longer? By what fraction was it.

4. In a class of 40 students  $\frac{1}{5}$  of the total number of students like to study English,  $\frac{2}{5}$  of total like to study Maths and remaining students like to study Science. Find the number of students of each subject?

5. Find (a)  $\frac{1}{2}$  of (i) 24 (ii) 46 (b)  $\frac{2}{3}$  of (i) 18 (ii) 27

(c)  $3 \times 5\frac{1}{5}$

(d)  $5 \times 6\frac{3}{4}$

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

6. Sushant reads  $\frac{1}{3}$  part of a book in 1 hrs. How much part of the book will he read in  $2\frac{1}{5}$  hr.

7. Lipika reads a book for  $1\frac{3}{4}$  hour every day. She reads the entire book in 6 days How many hours in all were required by her to read the book.

8. Solve these and use the sign  $>$ ,  $<$ ,  $=$

(i)  $(-3) + 7 - (19)$    $15 - 8 + (-9)$

(ii)  $23 - 41 + 11$              $23-41-1$

(iii)  $39 + (23) - (75)$              $36 + (-52) - (-45)$

9. In a class test containing 15 questions, 4 marks are given for every correct answers and ( -2) marks for every incorrect.

(a) Gurpreet attempts all questions but only 8 of her answers of her answers are correct. What is her total score?

(b) Savita gets only 6 correct answers. What will be her score?

10. A Shopkeeper earns profit Rs 1 by selling one pen and gets a loss of 40 paisa by selling pencils.

(i) He gets loss of 5 Rs in that period, she sold 45 pens. How many pencils did he sell?

(ii) In the next month he earns neither profit nor loss. If he sold 70 pens, how many pencils did he sell?

