

KENDRIYA VIDYALAYA, IIT CAMPUS, CHENNAI – 36
HOLIDAY HOMEWORK – VIII MATHEMATICS
WORK SHEET 1 (LINEAR EQUATIONS IN ONE VARIABLE)

Choose correct option in questions 1 to 5.

1. Solve: $6 = z + 2$
a. 4
b. 8
c. -8
d. none of these
2. Solve: $8y = 32$
a. 3
b. 4
c. 24
d. 40
3. Solve: $4z + 3 = 6 + 2z$
a. $\frac{1}{2}$
b. 1
c. $\frac{3}{2}$
d. 0
4. Solve: $3m = 5m - \frac{8}{5}$
a. 0.2
b. 0.25
c. 0.5
d. $\frac{4}{5}$
5. Solve: $\frac{z}{z+15} = \frac{4}{9}$
a. 12
b. 13
c. 14
d. none of these

Fill in the blanks:

6. The equations are linear, i.e., the highest power of the variable appearing in the equation is _____.
7. The sum of three consecutive multiples of 11 is 363. Find these multiples.
8. Three consecutive integers add up to 51. What are these integers?
9. Sum of the digits of a two-digit number is 9. When we interchange the digits, it is found that the resulting new number is greater than the original number by 27. What is the two-digit number?

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WORK SHEET 2 (LINEAR EQUATIONS IN ONE VARIABLE)

Choose correct option in questions 1 to 5.

1. Solve: $y + 3 = 10$
a. 7
b. 13
c. -7
d. none of these
2. Solve: $7x = 21$
a. 2
b. 3
c. 14
d. 28
3. Solve: $5x + 9 = 5 + 3x$
a. 1
b. -1
c. -2
d. 0
4. Solve: $2y + \frac{5}{3} = \frac{26}{3} - y$
a. 2
b. 3
c. 4
d. $\frac{7}{3}$
5. Solve: $\frac{8x-3}{3x} = 2$
a. $\frac{3}{2}$
b. $\frac{1}{2}$
c. $\frac{1}{4}$
d. none of these

Fill in the blanks:

6. A linear equation may have for its ____ any rational number.
7. Bansi has 3 times as many two-rupee coins as he has five-rupee coins. If he has in all a sum of Rs 77, how many coins of each denomination does he have?
8. Two numbers are in the ratio 5:3. If they differ by 18, what are the numbers?
9. A positive number is 5 times another number. If 21 is added to both the numbers, then one of the new numbers becomes twice the other new number. What are the numbers?

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WORK SHEET 3 (RATIONAL NUMBERS)

1. Write the multiplication tables from 6th to 20th Table 3 times each.
