Linear equations in one variable worksheets with answers 5th edition free

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Practice the questions given in the worksheet on linear equation in one variable.

I. Solve the following equations and check the result:

1. 2x – 6 = 0

2. 7x – 2 = 8 - x

3. 8 – 2x = 5 – 4x

4. 4 + 3x = 2 – 2x

5. 2(x – 1) + 2(3x -1) = 0

6. 4(x-1) –(2x – 5) = 47.

2x – \\(\frac{2}{3}\\) = \\(\frac{3}{4}\\) – x

8. \\(\frac{x}{3}\\) – 2 = 4 + \\(\frac{1}{4}\\)

9. \\(\frac{x}{9}\\) + \(\frac{x}{3}\\) = \\(\frac{1}{9}\\)

10. 3x + 2(x+2) = 10 – (2x – 5)

11. 10(y – 4) – 2(y – 9) – 5(y + 4) = 0

12. \\(\frac{2m+5}{3}\\) = 3m - 5

13. 6(3x + 2) – 5(6x – 1) = 2(x – 8) – 5(7x – 6) + 8x

14. t – (2t +5) – (1- 2t) = (3 + 4t) – 2(t - 4)

15. \\(\frac{2x}{3}\\) = \\(\frac{3x}{4}\\) + \\(\frac{7}{12}\\)

16. \\(\frac{3x-1}{5}\\) - \\(\frac{x}{15}\\) =3

17. 2x – 3 = \\(\frac{3}{10}\\) x

18. \\(\frac{2y – 1}{3}\\) - \\(\frac{y - 2}{4}\\) = 1

19. \\(\frac{x-2}{9}\\) + \\(\frac{1}{3}\\) = x - \\(\frac{2x – 1}{3}\\)

20. \\(\frac{2x-1}{3}\\) - \\(\frac{2x - 2}{5}\\) = \\(\frac{1}{3}\\)

21. \\(\frac{y + 7}{15}\\) = 1 + \\(\frac{3y - 2}{5}\\)

22. \\(\frac{2x - 18}{7}\\) + \\(\frac{x}{3}\\) = 2

23. \\(\frac{2x - 3}{5}\\) + \\(\frac{x + 3}{4}\\) = \\(\frac{4x + 1}{4}\\)

24. \\(\frac{21x - 3}{4}\\) – (2x - \\(\frac{1 - x}{2}\\)) = x + \\(\frac{5}{2}\\)

25. \\(\frac{x + 2}{6}\\) – (\\(\frac{11 - x}{3}\\)- \\(\frac{1}{4}\\)) = \\(\frac{3x - 4}{9}\\)

26. \\(\frac{9x + 7}{2}\\) – (x - \\(\frac{x - 2}{12}\\)) = 24

27. 0.5x +\\(\frac{x}{3}\\) = 0.25x + 6

28. 0.18(5x – 4) = 0.5x + 6

29. 2.4(3 – x) – 0.3(2x – 3) = 0

30. 0.5x – (0.6 – 0.2x) = 0.2 – 0.3x

31. \\(\frac{x + 2}{x - 2}\\) = \\(\frac{7}{2}\\)

32. \\(\frac{2x + 5}{3x + 4}\\) = 5.

II. Solve the following word problems:

1. Ten added to thrice a whole number gives 40. Find the number.

2. Four-fifths of a number is greater than three-fourths of a number by 8. Find the number.

3. The sum of two consecutive multiples of 4 is 60. Find the number.

Solutions:

I.
1. x = 32.
x = 5/43.
x = -3/24.
x = -2/55.
x = 1/26.
x = 3/27.
x = 17/368.
x = 25/49.
x = 1/410.
x = 11/711.
y = 1412.
m = 20/713.
x = -3/1314.
t = -1715.
x = -716.
x = 617.
x = 018.
y = 219.
x = -120.
x = 121.
y = -1/422.
x = 96/1323.
x = -2/724.
x = 11/725.
x = 113/626.
x = 248/4327.
x = 72/728.
x = 3.329.
x = 2.130.
x = 0.831.
x = 18/532.
x = -15/13.

II.
1. x = 102.
x = 1603.
1st number = 282
nd number = 32

9th Grade Math

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Share this page: What's this? These word problems involve variables and equations. Students write out a full equation with the suggested variable representing the unknown, then solve the equation. Underlying operations include addition, subtraction, multiplication and division of whole numbers and fractions. Math worksheets and visual curriculum Worked-out word problems on linear equations with solutions explained step-by-step in different types of examples. There are several problems which involve relations among known and unknown numbers and can be put in the form of equations. The equations are generally stated in words and it is for this reason we refer to these problems as word problems. With the help of equations in one variable, we have already practiced equations to solve some real life problems.

Steps involved in solving a linear equation word problem:

● Read the problem carefully and note what is given and what is required and what is given.

● Denote the unknown by the variables as x, y, ...

● Translate the problem to the language of mathematics or mathematical statements.

● Form the linear equation in one variable using the conditions given in the problems.

● Solve the equation for the unknown.

● Verify to be sure whether the answer satisfies the conditions of the problem.

1. The sum of two numbers is 25. One of the numbers exceeds the other by 9. Find the numbers.

Solution:
Then the other number = x + 9
Let the number be x. Sum of two numbers = 25
According to question, x + x + 9 = 25⇒ 2x + 9 = 25⇒ 2x = 25 - 9 (transposing 9 to the R.H.S changes to -9) ⇒ 2x = 16⇒ 2x/2 = 16/2 (divide by 2 on both the sides) ⇒ x = 8Therefore, x + 9 = 8 + 9 = 17Therefore, the two numbers are 8 and 17.

2. The difference between the two numbers is 48. The ratio of the two numbers is 7:3. What are the two numbers?

Solution: Let the common ratio be x. Let the common ratio be x. Their difference = 48According to the question, 7x - 3x = 48 ⇒ 4x = 48 ⇒ x = 48/4 ⇒ x = 12Therefore, 7x = 7 × 12 = 84   3x = 3 × 12 = 36 Therefore, the two numbers are 84 and 36.

3. The length of a rectangle is twice its breadth. If the perimeter is 72 metre, find the length and breadth of the rectangle. Solution:Let the breadth of the rectangle be x, Then the length of the rectangle = 2xPerimeter of the rectangle = 72Therefore, according to the question2(x + 2x) = 72⇒ 2 × 3x = 72⇒ 6x = 72 ⇒ x = 72/6⇒ x = 12We know, length of the rectangle = 2x = 2 × 12 = 24Therefore, length of the rectangle is 24 m and breadth of the rectangle is 12 m. 4. Aaron is 5 years younger than Ron. Four years later, Ron will be twice as old as Aaron. Find their present ages. Solution:Let Ron's present age be x. Then Aaron's present age = x - 5After 4 years Ron's age = x + 4, Aaron's age x - 5 + 4. According to the question; Ron will be twice as old as Aaron. Therefore, x + 4 = 2(x - 5 + 4) ⇒ x + 4 = 2(x - 1) ⇒ x + 4 = 2x - 2⇒ x + 4 = 2x - 2⇒ 2x - 2x - 2 = -2 - 4⇒ -x = -6⇒ x = 6Therefore, Aaron's present age = x - 5 = 6 - 5 = 1Therefore, present age of Ron = 6 years and present age of Aaron = 1 year.5. A number is divided into two parts, such that one part is 10 more than the other. If the two parts are in the ratio 5 : 3, find the number and the two parts. Solution:Let one part of the number be xThen the other part of the number = x + 10The ratio of the two numbers is 5 : 3Therefore, (x + 10)/x = 5/3⇒ 3(x + 10) = 5x ⇒ 3x + 30 = 5x⇒ 5x - 3x= 30 = 2x = x = 30/2 = x = 15Therefore, x + 10 = 15 + 10 = 25Therefore, the number = 25 + 15 = 40 The two parts are 15 and 25. More solved examples with detailed explanation on the word problems on linear equations.6. Robert's father is 4 times as old as Robert. After 5 years, father will be three times as old as Robert. Find their present ages. Solution:Let Robert's age be x years. Then Robert's father's age = 4xAfter 5 years, Robert's age = x + 5Father's age = 4x + 5According to the question, 4x + 5 = 3(x + 5) ⇒ 4x + 5 = 3x + 15 ⇒ 4x - 3x = 15 - 5 ⇒ x = 10 Robert's present age is 10 years and that of his father's age = 40 years. 7. The sum of two consecutive multiples of 5 is 55. Find these multiples. Solution:Let the first multiple of 5 be x. Then the other multiple of 5 will be x + 5 and their sum = 55Therefore, x + x + 5 = 55⇒ 2x + 5 = 55⇒ 2x = 55 - 5⇒ 2x = 50⇒ x = 50/2 ⇒ x = 25 Therefore, the multiples of 5, i.e., x + 5 = 25 + 5 = 30Therefore, the two consecutive multiples of 5 whose sum is 55 are 25 and 30. 8. The difference in the measures of two complementary angles is 12°. Find the measure of the angles. Solution:Let the angle be x. Complement of x = 90 - xGiven their difference = 12°Therefore, (90 - x) - x = 12°⇒ 90 - 2x = 12⇒ - 2x = 12 - 90⇒ -2x = -78⇒ 2x/2 = 78/2⇒ x = 39Therefore, 90 - x = 90 - 39 = 51 Therefore, the two complementary angles are 39° and 51°9. The cost of two tables and three chairs is $705. If the table costs $40 more than the chair, find the cost of the table and the chair. Solution:The table cost $ 40 more than the chair. Let us assume the cost of the chair to be x. Then the cost of the table = $ 40 + xThe cost of 3 chairs = 3 × x = 3x and the cost of 2 tables 2(40 + x) Total cost of 2 tables and 3 chairs = $705Therefore, 2(40 + x) + 3x = 70580 + 2x + 3x = 70580 + 5x = 7055x = 705 - 805x = 625/5x = 125 and 40 + x = 40 + 125 = 165Therefore, the cost of each chair is $125 and that of each table is $165. 10. If 3/5 ᵗʰ of a number is 4 more than 1/2 the number, then what is the number? Solution:Let the number be x, then 3/5 ᵗʰ of the number is 4 more than 1/2 of the number. = 3x/5Also, 1/2 of the number = x/2 According to the question, 3/5 ᵗʰ of the number is 4 more than 1/2 of the number. = 3x/5 - x/2 = 4⇒ (6x - 5x)/10 = 4⇒ x/10 = 4⇒ x = 40The required number is 40. Try to follow the methods of solving word problems on linear equations and then observe the detailed instruction on the application of equations to solve the problems.

● Equations

What is an Equation?

What is a Linear Equation?

How to Solve Linear Equations?

Solving Linear Equations

Problems on Linear Equations in One Variable

Word Problems on Linear Equations in One Variable

Practice Test on Linear Equations

Practice Test on Word Problems on Linear Equations

● Equations - Worksheets

Worksheet on Linear Equations

Worksheet on Word Problems on Linear Equation

7th Grade Math Problems

8th Grade Math Practice

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