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Linear equations in one variable worksheets with answers worksheet

.6 Sc ogression : Quick	olving Line	ar Equations	(C) azoom!
Solve the following	equations. Some questi	ons will have negative, fracti	on or decimal answers.
ection A			
) $4x + 10 = 30$ ) $4x - 8 = 20$	4) $9+4x = -15$ 5) $14+6x = 2$	7) $5+10x = -15$ 8) $10=7-x$	10) $-4 = 12 - 2x$ 11) $25 = 46 - 3x$
) $5+2x=65$	6) $2x-3=-2$	9) $-3 = 16 - x$	12) 8 = 9 - 5x
ection B	×	ž	x+5
$\frac{1}{2} + 11 = 19$	4) $3 = \frac{2}{4} - 3$ 5) $7 = \frac{x}{4} - 4$	7) $-1=6+\frac{2}{2}$	10) $\frac{x+3}{3} = 12$ 11) $x-4 = 9$
$\frac{1}{7} - 6 = 1$ 12 + $\frac{x}{5} = 20$	5) $7 = \frac{1}{2} - \frac{1}{4}$ 6) $-2 = \frac{x}{2} - 5$	9) $5 - \frac{x}{2} = -1$	$\frac{11}{11} = 3$ $\frac{12}{12} = \frac{12}{12} = -2$
5	8	9	8
Name :		Sc	ore :
	Multi-Step E	quations: Fractions	Sheet 1
Solve each e	quation.		
1) $3(a - \frac{2}{3})$	$=\frac{3}{4}a+2\frac{1}{4}$	2) $\frac{z}{2} - \frac{3}{5} = -$	$\frac{2}{3}z + \frac{1}{6}$
2) 7 . 2.	2,9	4 3c+8_1	. c
$\frac{3}{4}x - 3 = 3$	$=2+\frac{1}{2}x$	$\frac{4}{3} = \frac{1}{2}$	+ 4
- 1 2-	15	e 1	4
$\frac{5}{3} - \frac{1}{9}$	n = 15 + m	6) $\frac{1}{2}(q+1) =$	3-9
. 1 .	.1 8	2 2 2	1
/) <del>6</del> r+2=	$=4\frac{1}{9}r + \frac{3}{3}$	8) $\frac{x}{3} - \frac{y}{2}y + \frac{y}{3}$	$\frac{1}{3}y + 4 = 0$
rintable Math Works	heets @ www.mathworksh	eets4kids.com	0

**Solve the Equations** 

1) 4.5 = z + 3.3

Teacher :

6) - 12 = 3.9 + c

Date :

2) - 15.6 = - 3.9 r	7) $5.5 \times = 60.5$
3) -8 = 6.7+v	$(8) - 2.4 = \frac{y}{4}$
4) 33.6 = 4.8 p	9) n + 4.4 = - 5.6
5) $\frac{k}{4} = -2.2$	10) - 6.6 q = - 33

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Ch - 2 Linear Equations in one Variable

- Q.1 Solve the following equations.
  - (a)  $\frac{6x+7}{3x+2} = \frac{4x+5}{2x+3}$  (b)  $6(5x+1) + x^2 = (x+1)(x2)$  (c)  $\frac{5x+4}{7x+3} = \frac{5x-1}{7x-2}$ (d)  $\frac{9x-7}{3x+5} = \frac{3x-4}{x+6}$  (e)  $\frac{x-3}{x+3} = \frac{x-2}{x+2}$  (f)  $\frac{1}{x-1} + \frac{3}{x+1} = \frac{4}{x}$

(g) (x+2)(2x-3) = (2x+5)(x+4) (h) (6x+5)(2x+3) = (4x+7)(3x+2)

Find a positive value of the variable x for which the following equations are satisfied. Q.2

(a) 
$$\frac{x^2 - 9}{7 - x^2} = \frac{-7}{9}$$
 (b)  $\frac{x^2 + 7}{3x^2 + 10} = \frac{1}{2}$ 

- The difference between two positive integers is 75. The ratio of these integers is 1:4. Q.3 Find the integers.
- If three consecutive multiples of 11 are multiplied by 2, 3 and 4 respectively and then Q.4 added, the sum is 814. Find each of the multiples.
- Three numbers are in the ratio 3:4:5 if the sum of the largest and the smallest numbers Q.5 exceeds the third number by 64, find the numbers.
- The denominator of a rational number is greater than its numerator by 5. If the Q.6 numerator is increased by 11 and the denominator is decreased by 14, the new number becomes 5. Find the original rational number.
- The sum of the digits of a two-digit number is 9. If the digits are interchanged, the Q.7 number obtained exceeds the original number by 27. Find the number.
- Q.8 Natasha thinks of a number and subtracts from it and multiplies the result by 9. The product now obtained is 7 times the number she thought of. What is the number?
- The sum of the present ages of a father and son is 53 years. Four years ago, the father's Q.9 age was four times the age of the son. Find their present ages.
- Q.10 At present, Ankit is twice as old as his son. In four years, he will be four times as old as what his son was 9 years ago. Find the present ages of both of them.
- Q.11 Srividya gets a certain amount of money on retirement. She deposits half the money in a bank, gives her daughter half of the remaining and additional sum of Rs. 6000. She gives her son the remaining amount which is found to be half of what she gave her daughter. What is the amount Srividya received on retirement?

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E (0,-5)

 $\nabla^{2}$ 

4(x-1) - (2x-5) = 47. (a) 2x + 5 = 1 (b) x - 1 = 0 (c) y + 1 = 0 (d) 5x + 33. 9n - 2q-1/2 - 3x + 1/5 = 1/2 8. y = -1/422. Form an equation of '7 added to thrice a number is 118 and also find the number. Solve: 4t-3/3 + 3t+2/2 = t + 2/5 13. x = -716. 6z - 2[z - 5(z - 3)] = 6 14. If q = x + 2, solve the following equation and find the value of x. x = -716.11/711. Answers: 1. (a) -3 (b)  $1^{7/9}$  (c) 5 (d) -3 (e) 3 (f) 3 (g) 120 (h) -3 (i)  $-2^{3/5}$  2. (a) 7 (b) 48 (c) 20/7 (d) 49/5 (e) -11/8 (f) 5/12 (g) 31/2 (h) -16.5 Equations? For blems on Linear Equations? Solving Linear Equation? So Equations in One VariablePractice Test on Linear EquationsPractice Test on Linear Equations + Equations + Equations + EquationsWorksheet on Linear Equations + Equations + EquationsWorksheet on Linear Equations + Equations + Equations + Equations + Equations + EquationsWorksheet + Equations + Equations + Equations + EquationsWorksheet + Equations + Equa looking for? 2(3p - 1) = 7 - (4p - 1), solve and find p. Class 8 Maths Linear Equation in One Variable Long Answer Type Questions 1. 2x - 6 = 02. 2. Solve: 3. Solve the linear equation and find the value of 't'. He gave half of it to his wife, to his son and ,<sup>1</sup> 1200 of his daughter. Ready-made worksheets for simplifying expressions Worksheets for evaluating expressions with variables from verbal expressions with variables from verbal expressions worksheets for linear inequalities Key to Algebra to your students. The solution of 2x - 3 = 7 is: (a) 2 (b) -2 (c) 5 (d) -5 2. Ten added to thrice a whole number gives 40. Form the equation for finding the another number. Practice the questions given in the worksheet on linear Equations Worksheet - 1 Linear Equations Worksheet - 2 Worksheet - 3 Answer Sheet Linear-Equations-AnswerDownload the pdf Copyright © 2022 LetsPlayMaths.com. x = 25/49. (a) 12 (b) 14 (c) 16 (d) 20 4. x = -2/724. Solve: 3x = 2x + 18 (a) 18 (b) -18 (c) 14 (d) None of these 16. Find the solution of (a) 2 (b) -2 (c) 3 (d) None of these 9. 0.18(5x - 4) = 0.5x + 0.629. 3/n+5 = 4/3-n, find the value of n. Word problems relate algebra to familiar situations, helping students to understand abstract concepts. (a) 45, 27 (b) 50, 32 (c) 40, 22 (d) None of these 14.  $2x - 3 = \sqrt{3} = x/4 + 3/2 6$ . 9n - 7 = 3n + 5/2.  $x = \sqrt{3} = \sqrt{4} + 3/2 6$ . 96/1323. A man , 1 x. x = 18/532. Find the number. \(\frac{x}{9}\) + \(\frac{x}{3}\) = \(\frac{1}{9}\)10. The worksheets suit pre-algebra and algebra 1 courses (grades 6-9). A number consists of two digits whose sum is 9. Simplify 2p/2-25 - 3/p-5 = 5/p+5 19. 2(x - 1) + 2(3x - 1) = 06. Solve: y + 3 = 10 6. Two numbers are in the ratio 5 : 3. Solve: 7x - 19 = 12 Class 8 Maths Linear Equation in One Variable Short Answer Type Questions 1. Solve: 4z + 3 = 6 + 2z (a) (b) - (c) 2 (d) None of these 19. 2.4(3 - x) - 0.3(2x - 3) = 030. 8 - 2x = 5 - 4x4. x = 121. Solve: 8x + 3 = 27 (a) 3 (b) -3 (c) 2 (d) None of these 11. y = 219. Find the angles of the triangle. 0.5x+((frac{x}{3})) = 0.25x + 628. Solve the equation and find the value of n. x = 1603. Solve the equation 2n-3n+1 = -21/3 10. Solve: = 10 9. Simplify: 4/n = 7/n-3 15. Find the number = 32 9th Grade MathFrom Worksheet on Linear Equation in One Variable to HOME PAGE Didn't find what you were looking for? After 5 years their ages will add to 66 years. t+3/4 - 3t-4/5 + t-3/3 = 0 If you want to download the above worksheet, please click below link. x = 102. Solve: 5x + 9 = 5 + 3x (a) 2 (b) -2 (c) 3 (d) None of these 18. Solve each of the following equations and check your solution by substituting in the equation. (a) 3x/2 - 10 = 1/2 (b) x/2 - x/3 = 8 (c) 6x - 9 - 2(1 - x) = x + 9 (d) 2(x - 2) - 5(x - 5) = 4(x - 8) - 2(x - 2) (e) (2 - y)/(y + 7) = 3/5 (f) (3x + 2)/(2x - 3) = -3/2 (g) (x - 8)/3 = (x - 3)/5 (h) 0.25(4y - 3) = 0.5y - 9 Answers for the worksheet on linear equations in one variable are given below so that students can check the exact answers after solving the equations. x = 72/728. Find the number.3. The sum of two consecutive multiples of 4 is 60. x = 113/626. x = 617. 6(3x + 2) - 5(6x - 1) = 2(x - 8) - 5(7x - 6) + 8x14. 3(3x + 5) + 5(2x - 9) = 3(4x - 3) - 15 16. x = 17/368. If sum of two numbers is 29 and one of them is 18. Solve the linear equation of  $8n^3 - 3 = n^2 + 20$ . Solve: 8x + 4 = 3(x - 1) + 7 (a) 1 (b) -1 (c) 0 (d) None of these 8. x = 018. x = 0182.130. t = -1715. For what value of y is the perimeter of shape 220 cm? Solve and find the value of z. Use this Google Search to find what you need. Students develop understanding by solving equations and inequalities intuitively before formal solutions are introduced. The sum of the two number is 5 and difference of their squares is 5. The present age of Sahil's mother is three times the present age of Sahil.  $(\frac{x + 3}{4}) = (\frac{x + 3}{4})$ -2 (c) 3 (d) None of these 5. Solve: n/2 + n/3 = 35 - n + 30/5 18. Find the present age of Sahil. Find the solution of (a) 8 (b) -8 (c) 4 (d) None of these 10. \(\\frac{11 - x}{3}\) - \(\\frac{11 - x}{3}\) = (\\frac{12 - 1}{4}\) = (\\frac{12 - 1}{  ${3} = 119. (\frac{1}{3}) = 119. (\frac{1}{3}) = x - (\frac{1}{3}) = 0.$ 7x = 94. To get the PDF worksheet, simply push the button titled "Create PDF" or "Make PDF worksheet". Solve: 2x - 3 = x + 2 (a) 5 (b) -9 (c) 5 (d) 9 15. Interior angles of a triangle are in the ratio 2:3:4. Solve: (z + 2)(z - 2) - z(z + 9) = 520. Books 5-7 introduce rational numbers and expressions. Solve: 6x = 128. What are the numbers? Solve: 0.2(3 - x) = 0.3(x - 3) 7. Students begin their study of algebra in Books 1-4 using only integers. Share this page: What's this? Html format: simply refresh the worksheet page in your browser window. Students can recall the lesson and practice the equations step-by-step and then try to represent the solution of the linear equation graphically.1. Solve each of the following equations and represent the solution graphically. (a) 7x + 2 = -19 (b) 3x - 1/3 = 5 (c) 5x - 4 = 21 (d) -7x = -3 (f) 3(x + 4) = 21 (g) 2x/3 - 3x/5 = 8 (h) 3x - 9 = 5x - 3 (i) 3(x - 3) = 4(2x + 1) 2. x = 3.329. (\\frac{9x + 7}{2}\) = 2427. 4 + 3x = 2 - 2x5. Solve: = 18 10. x = -2/55. Solutions: I. 1. x = -120. x = 11/725. Solve: 8x = 20 + 3x (a) 4 (b) -4 (c) 2 (d) None of these 6. Solve: 5t - 3 = 3t - 5 (a) 1 (b) -1 (c) 2 (d) None of these 17. x = -15/13II. 1. \\\frac{y + 7}{15}\) = 1 + \\\frac{3y - 2}{5}\] are here: Home  $\rightarrow$  Worksheets  $\rightarrow$  Linear equations Find here an unlimited supply of printable worksheets for solving linear equations, available as both PDF and html files.  $(\frac{2m+5}{3}) = 3m - 513$ . The answer key is automatically generated and is placed on the second page of the file.  $(\frac{2x - 1}{3}) = (\frac{2x - 2}{5}) = (\frac{1}{3})$ 3\21. 3. x = -3/24. 5. Find the difference of the numbers? Solve: (a) 2 (b) -2 (c) 3 (d) None of these 7. \(\frac{2x}{3}\) = of rectangle. => Learn more Practice worksheet on linear equations in one variable. Simplify the following linear equation. x = 0.831. Or want to know more information about Math Only Math. x = -3/1314. Solve: x - 2 = 7 5. You can customize the worksheets to include one-step, two-step, or multi-step equations, variable on both sides, parenthesis, and more. What is the age of father? Find its length in cm (a) 3 (b) -3 (c) 2 (d) None of these 13.  $(\frac{1}{2}) - 2 = 4 + (\frac{1}{4}) = x + (\frac{1$  $\{2\}$  25. All Rights Reserved. 3. 1. If they differ by 18, what are the numbers? 0.5x - (0.6 - 0.2x) = 0.2 - 0.3x31. New concepts are explained in simple language, and examples are explained in simple language, and examples are explained in simple language. + 2(x+2) = 10 - (2x - 5)11. 4. x = 32. Sides of rectangle are is the ratio 15 : 4. This has the advantage that you can save the worksheet directly from your browser (choose File  $\rightarrow$  Save) and then edit it in Word or other word processing program. You can choose from SEVEN basic types of equations, ranging from simple to complex, explained below (such as one-step equations, variable on both sides, or having to use the distributive property). If 9 is added to the number its digits are inter changed. Just try again! To get a different worksheet using the same options: PDF format: come back to this page and push the button again. 2x - \(\frac{2}{3}\) = \((\frac{2}{3}\) = \(\frac{2}{3}\) = \(\frac y = 1412.m = 20/713. Sometimes the generated worksheet is not exactly what you want.  $(\frac{3x-1}{5}) - (\frac{x}{15}) = 317$ .

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