

$$2\frac{3}{3}y - \frac{3}{4} = 5$$

$$+\frac{3}{5} + \frac{2}{5} + \frac{3}{5} + \frac{2}{5} + \frac{3}{5} + \frac{2}{5} + \frac{3}{5} + \frac{3}{5}$$

2

Variables on both sides of the Equation



1. Get all letters on one side of the equation.

2. Isolate variable by performing reverse order of operations

Try These!

1.)
$$6x = 4x - 10$$

2.)
$$-5x - 7 = 13$$

3.) -3x = 2x - 15

4.)
$$-9x - 29 = 7x + 8$$

Try These!

1.)
$$6x = 4x - 10$$

 $-4x - 4x$
 $2x = -10$
 $2x = -50$
 $-5x - 7 = 13$
 $+7 + 7$
 $-5x - 7 = 20$
 $-5x - 7 = -5$

3.)
$$-3x = 2x - 15$$

 $-2x - 2x$
 $-5x = -15$
 $-5x = -5$
 $x = 3$

4.)
$$-9x - 29 = 7x + 8$$

 $+9x - 29 = 16x + 8$
 $-37 = 16x + 8$
 $-37 = 16x$
 $-37 = 16x$

- 3× =	Zx -	15
+3×	+ 3x	
0 =	5x-	15
+15	+	13
15-	5×	
5	5	(1-2)
3 -	= X (x = 5

Variables in the Denominator

$$m_{\rm N}^2 = 3 m$$

$$27 = 3m$$

1. Move the variable to the numerator by multiplying by the variable on both sides OR cross multiplying 1(27) = m(3)27=3m

Homework

pg. 15-16 #2, 5-8, 11, 16-17

1.1 Solving 1 and 2-step equations.notebook

Algebra Practice Problems	Name: Date:
	Worksheet generated at www.math.com
1.) $8 = x + 1$	2.) $x + 7 = 11$
3.) $x + 3 = 11$	4.) $-5 + x = -43/_8$
5.) $x/4 = -7$	6.) $2x + 6 = 8$
7.) $-2x+2=-6$	8.) $4x + 5 = 1$
9.) $-7x - \frac{3}{8} = \frac{-619}{8}$	10.) $1 + 2x = 15$
11.) $-7x - 1 + 6x = -5$	12.) $-9 + 7x = -2x - 72$
13.) $4 - x = 5x - 26$	14.) $2x + 8 = -x + 44$

1.1 Solving 1 and 2-step equations.notebook

Name:	
Algebra Practice Problems - ANSWERS	Date:
1) 8 = x + 1 answer: x = 7	2) x + 7 = 11 answer: x = 4
3) x + 3 = 11 answer: x = 8	4) - 5 + x = $-\frac{43}{8}$ answer: x = $-\frac{3}{8}$
5) x / 4 = - 7 answer: x = -28	6) $2x + 6 = 8$ answer: $x = 1$
7) - 2x + 2 = - 6 answer: x = 4	8) $4x + 5 = 1$ answer: $x = -1$
9) - 7x - $\frac{3}{8} = \frac{-619}{8}$ answer: x = 11	10) 1 + 2x = 15 answer: x = 7
11) $-7x - 1 + 6x = -5$ answer: $x = 4$	12) $-9 + 7x = -2x - 72$ answer: $x = -7$
13) 4 - x = 5x - 26 answer: x = 5	14) $2x + 8 = -x + 44$ answer: $x = 12$