

Warm up

- | | |
|-----------------------------|------------------|
| 1. $d/5 = -7$ | 1. -35 |
| 2. $-3/4 b = 2$ | 2. -2 1/3 |
| 3. $m - 2 = -5 \frac{1}{2}$ | 3. -3 1/2 |
| 4. $v - 39 = -16$ | 4. 23 |
| 5. $j - 56 = -7$ | 5. 49 |

Oct 8-4:35 PM

Homework Solutions - STD

- | | |
|-----------------------|----------------------|
| 1. $15x + 3y$ | 9. $16x + 4y$ |
| 2. $10x^2 + 3y + 5x$ | 10. $19x^2 + 3y + x$ |
| 3. $11y + 5x$ | |
| 4. $12y^2 + 10y$ | |
| 5. $6x + y$ | |
| 6. $9x^2 + 4y$ | |
| 7. $14x + 2y$ | |
| 8. $2y^2 + 2x^2 + 4y$ | |

Oct 8-4:20 PM

Homework Solutions - Honors

- | | |
|--------|----------------------|
| 1. 14 | 9. -5 |
| 2. -1 | 10. 6 |
| 3. 16 | 11. 28 |
| 4. -6 | 12. -100 |
| 5. -19 | 13. 20 |
| 6. -5 | 14. -20 |
| 7. -8 | 15. -40 |
| 8. 5 | 16. $1 \frac{1}{12}$ |

Oct 8-4:20 PM

Homework Solutions - Honors

- | | |
|----------------------|-----------------------|
| 17. $x + 12 = 28$ | 22. -0.7 |
| 16 hours | 23. 10.3 |
| 18. $4b = 72$ | 24. $-1 \frac{1}{2}$ |
| 18 years | 25. a. $27p = 148.50$ |
| 19. $-3 \frac{1}{4}$ | p = \$5.50 |
| 20. $-7/10$ | b. $5.50p = 1512.50$ |
| 21. $2 \frac{1}{9}$ | 275 people |

Oct 8-4:20 PM

10.1**TWO-STEP EQUATIONS****Learn** to solve two-step equations.

Nov 1-3:02 PM

Sometimes more than one inverse operation is needed to solve an equation. Before solving, ask yourself, "What is being done to the variable, and in what order?" Then work backward to undo the operations.

What is an example of a two-step equation?

Don't Call Me After Midnight

Nov 1-3:04 PM

Inverse operations are mathematical operations that undo each other.

The goal when solving an equation is to **isolate the variable**.

With a partner, develop a definition for an equation.

An equation is a mathematical statement that 2 expressions are equal in value.

Oct 8-7:25 AM

How would you solve the following problem:

Jaime rented a canoe while she was on vacation. She paid a flat rental fee of \$85 plus \$7.50 each day. Her total cost was \$130. For how many days did she rent the canoe?

What steps did you take to solve the original problem? What did you do first? Why?

How could you express this problem using an equation?

Oct 7-8:58 PM

You can solve 2-step equations by undoing one operation at a time. First undo any addition or subtraction, then undo any multiplication or division.

In other words, work backward, or use your

**Order of Operations in
REVERSE**

Always check your answer!

Oct 7-8:58 PM

Solve.

A. $\frac{n}{3} + 7 = 22$

Nov 1-3:06 PM

Solve.

B. $8 + 5x = 23$

Nov 1-3:17 PM

C. $-4 - 2p = 2$

Nov 1-3:17 PM

$$D. -5 + r/4 = -3$$

Nov 1-3:17 PM

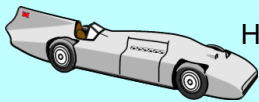
$$E. \frac{y-2}{4} = 8$$

Oct 8-1:16 PM

The mechanic's bill to repair Mr. Wong's car was \$650. The mechanic charges \$45 an hour for labor, and the parts that were used cost \$443. How many hours did the mechanic work on the car?

Equation: _____

Hours worked: _____



Nov 1-3:04 PM

Your Turn

1. $3m + 8 = -7$

$m = -5$

2. $-7 - 2k = -19$

$k = 6$

3. $d/4 + (-7) = 5$

$d = 48$

4. Choose one of the equations from #1-3 and write a word problem to go with the equation.

Oct 8-7:40 AM

Solve.

1. $\frac{x}{-9} - 3 = 10$

2. $7y + 25 = -24$

3. $-8.3 = -3.5x + 13.4$

4. $\frac{y+5}{11} = 3$

5. The cost for a new cell phone plan is \$39 per month plus a one-time start-up fee of \$78. If you are charged \$1014, how many months will the contract last?

Nov 1-3:17 PM

DAY 2

Oct 8-4:20 PM

$$6n + 4 = 28$$

$$-3p - 8 = 19$$

Oct 9-7:07 AM

$$8 + j/4 = 17$$

$$u/6 - 12 = 3$$

Oct 9-7:07 AM

$$\frac{x + 8}{-3} = 10$$

$$\frac{4x - 8}{9} = 12$$

Oct 9-7:07 AM

Classwork:

Algebra book pg. 97 - 98
#1-20

Oct 9-7:15 AM

Classwork: Algebra book pg. 97 - 98 #1-20

- | | |
|--|---------|
| 1. -5 | 11. -12 |
| 2. 63 | 12. 5 |
| 3. -7 | 13. -1 |
| 4. -13 | 14. -50 |
| 5. \$0.62 | 15. -2 |
| 6. -44 | 16. 72 |
| 7. 8 | 17. -27 |
| 8. 36 | 18. -3 |
| 9. 2 | 19. 126 |
| 10. No, you must either multiply both sides by 5 first or write the left side as the difference of two fractions and then add 3/5 to both sides. | 20. 100 |

Oct 9-7:15 AM

Blue Holt
Pg. 572 #1-8

Oct 9-7:13 AM