

6<sup>th</sup> Grade CCA Unit #3: Algebra- Expressions and Equations

Unit #3: Algebra- Expressions and Equations

Resources: Big Ideas: Chapter 3

Common Core Standards: 7.EE.1; 7.EE.2; 7.EE.4a

Number	Learning Targets	Common Core Standard	Resources
1	I can simplify algebraic expressions.	7.EE.1; 7.EE.2	3.1
2	I can add and subtract linear expressions.	7.EE.1; 7.EE.2	3.2
3	I can solve simple equations using addition and subtraction.	7.EE.4a	3.3
4	I can solve equations using multiplication and division.	7.EE.4a	3.4
5	I can solve two-step equations.	7.EE.4a	3.5
6	I can solve two-step word problems.	7.EE.4a	3.5Ext

My Practice:

Number	Pre-test:	Exit slip scores	Day #2 Homework	Extra Targeted Practice	Post-test:
1	_____/4				_____/8
2	_____/4				_____/10
3	_____/4				_____/9
4	_____/3				_____/7
5	_____/5				_____/10
6	_____/2				_____/6

My Final Pretest Score: \_\_\_\_\_ /22

My Final Pretest Percent \_\_\_\_\_ %

My Final Posttest Score: \_\_\_\_\_ /51

My Final Posttest Percent: \_\_\_\_\_ %

My percent of increase between the Pre and Post test scores = \_\_\_\_\_ !!

d

# My Academic Goal

My Goal from the second unit was: \_\_\_\_\_

Did I succeed in my goal?

Yes, because \_\_\_\_\_

\_\_\_\_\_

No. Things I will do differently next time \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

My Goal for the third unit is: \_\_\_\_\_

\_\_\_\_\_

To achieve my goal I will:

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

### 3.0 Distributive Property and Expressions Notes

**Distributive Property:** To multiply a sum or difference by a number, multiply each number in the sum or difference by the number outside of the parentheses.

#### Key Idea

##### Distributive Property

**Words** To multiply a sum or difference by a number, multiply each number in the sum or difference by the number outside the parentheses. Then evaluate.

**Numbers**  $3(7 + 2) = 3 \times 7 + 3 \times 2$       **Algebra**  $a(b + c) = ab + ac$   
 $3(7 - 2) = 3 \times 7 - 3 \times 2$        $a(b - c) = ab - ac$

**Steps for using the distributive property ("Jump the Fence"):**

- 1.) The number outside the parentheses "jumps the fence" (distributes).
- 2.) The number tags everyone inside (tag = multiply).
- 3.) Simplify the expression by combining like terms if needed.

**\*Like Terms:** terms within an expression that have the same variables raised to the same exponent; constant terms (numbers) are also like terms

**Simplify each expression:**

1.) $8(2x) =$	2.) $7(x + 5)$
3.) $9(2b - 6)$	4.) $3(5w + 2) + 7w$
5.) $6(3x + y + 4)$	6.) $5 + 2(4x + 6)$

**Simplify:**

7.)  $2(2x^2 + 4x) - 3x^2 - 2x^3$

8.)  $2xy - 5y - 3(x + y) - 5xy$

**Are the expressions equivalent? Simplify. Then explain why or why not.**

9.)  $4(3x + 2) + 3$  and  $12x + 20$

**3.0**

**The Distributive Property (1 day)**

Use the Distributive Property and mental math to find the product.

1.  $4 \times 31$

$(\quad \times \quad) + (\quad \times \quad) = \quad$

2.  $7 \times 49$

$(\quad \times \quad) + (\quad \times \quad) = \quad$

3.  $6(38)$

$(\quad \times \quad) + (\quad \times \quad) = \quad$

Use the Distributive Property to simplify the expression. Combine like terms if needed.

4.  $8(5 + w)$

5.  $11(9 + d)$

6.  $15(p - 4 + 2)$

Simplify the expression by combining like terms.

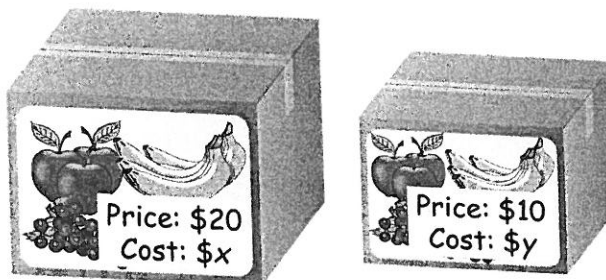
7.  $2x - 4 + 3x$

8.  $4y - 1 - 3y + 2$

9.  $x + 2(x - 4)$

10. A jazz band sells 31 large boxes of fruit and 74 small boxes of fruit for a fundraiser.

a. Use the Distributive Property to write and simplify an expression for the profit.



Profit = Price - Cost

b. A large box of fruit costs \$9 and a small box of fruit costs \$4. What is the jazz band's profit?

## Section 3.1: Algebraic Expressions Notes

POD: Simplify.

1.)  $3x + 2x + x$

2.)  $5y - 2y + 3y$

**Objective:** Students will be able to simplify algebraic expressions.

**Vocabulary:**

- 1.) Variable - a letter that represents an unknown number
- 2.) Like Terms- Terms that have the same variables raised to the same exponents
- 3.) Coefficient - The numerical factor of a term that contains a variable
- 4.) Constant - A term without a variable.

**Identify the terms and like terms**

1.) $9x - 2 + 7 - x$	2.) $z^2 + 5z - 3z^2 + z$
Terms:	Terms:
Like terms:	Like terms:

**How to Simplify a Variable Expression:**

- 1.) Combine "like terms" (variables with variables, numbers with numbers)

3.) $7y + 6 - 1 + 12y$	4.) $5x + 2y + 3x + 4$
5.) $4(3d + 2) + 5d$	6.) $\frac{3}{4}y + 12 - \frac{1}{2}y - 6$
7.) $3x^2 + 2x + 4x - x^2$	8.) $3x^2 + 2x + 6 + 2x^2 - x + 12$

Determine whether the expressions are the same. Explain your reasoning.

9.)  $3x + 2y + y + 5x$  and  $8x + 3y$

10.)  $3(2x + 4) + 2x$  and  $8x + 4$



**3.1****Algebraic Expressions Homework Day 1****Identify the terms and like terms in the expression.**

1.  $3x + 4 - 7x - 6$

2.  $-9 + 2.5y - 0.7y + 1 + 6.4y^2$

**Simplify the expression.**

3.  $5a^2 + a - 2a^2 + 6a$

4.  $m - \frac{1}{6} - 4m + \frac{5}{6}$

5.  $3x^2 + 5x + 4 + x^2 - x + 5$

6.  $7(d - 1) + 2$

7.  $13g + 2(4k - g)$

8.  $20(p + 2) + 16(-3 - p)$

9. Write an expression in simplest form that represents the cost for shampooing and cutting  $w$  women's hair and  $m$  men's hair.

	Women	Men
Cut	\$15	\$7
Shampoo	\$5	\$2





**3.1 Algebraic Expressions Homework Day 2**

Identify the terms and like terms in the expression.

1.  $-4y + 7 + 9y - 3$

2.  $3n^2 - 1.4n + 5n^2 - 6.4$

Simplify the expression.

3.  $-15m + 9m$

4.  $8k - 2(4 - 3k)$

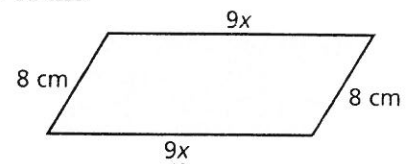
5.  $3.2 - 9x + 7.1 - 3x$

6.  $25x - 6x^2 - 12x - 2x^2$

7.  $19a^2 - 7 - 3a + 2a^2 + 2$

8.  $\frac{5}{2}(6x - 7) + \frac{4}{3}(2 + 9x)$

9. Write an expression in simplest form that represents the perimeter of the polygon.



10. Are the expressions  $8a^2 - 4b + 7a^2$  and  $5(3a^2 - 2b) + 6b$  equivalent?  
Explain your reasoning.

## Section 3.2: Adding and Subtracting Linear Expressions Notes

POD: Simplify

1.)  $3y - 2 + y + 6$

2.)  $2(3x + 4) + 6x$

**Objective:** Students will be able to add and subtract linear expressions.

**Vocabulary:**

1.) Linear Expression: An algebraic expression in which the exponent of the variable is 1.

Example:  $3x + 6$

NOT:  $3x^2 + 6$

**Find each sum.**

1.)  $(x - 2) + (3x + 8)$

2.)  $(-4y + 3) + 2(6y - 5)$

**Find each difference.**

3.)  $(5x + 6) - (-2x + 4)$

4.)  $(7y + 5) - 2(4y - 3)$

5.)  $\frac{1}{2}(3x + 6) - (5x - 24)$

6.)  $(4 - 5y) - 2(3.5y - 8)$

**3.2**

## Adding and Subtracting Linear Expressions Homework Day 1

Find the sum or difference.

1.  $(x - 2) + (x + 6)$

2.  $(2n - 4) - (4n - 3)$

3.  $2(-3y - 1) + (2y + 7)$

4.  $(1 - 3k) - 4(2 + 2.5k)$

5.  $(6g - 9) + \frac{1}{3}(15 - 9g)$

6.  $\frac{1}{2}(2r + 4) - \frac{1}{4}(16 - 8r)$

7. You earn  $(4x + 12)$  points after completing  $x$  levels of a video game and then lose  $(2x - 5)$  points. Write an expression that represents the total number of points you have now.



**3.2****Adding and Subtracting Expressions Homework Day 2****Find the sum.**

1.  $(p - 3) + (p - 7)$

2.  $(3n - 1) + (4 - n)$

3.  $(3c + 2) + 4(1.3c - 5)$

4.  $(-6y - 2) + 5(3 + 2.5y)$

5. After a week of rain, tadpoles appeared in your pond. After  $t$  minutes, you have  $(7t + 5)$  tadpoles and your friend has  $(8t - 3)$  tadpoles. Write an expression that represents the number of tadpoles you and your friend caught together.

**Find the difference.**

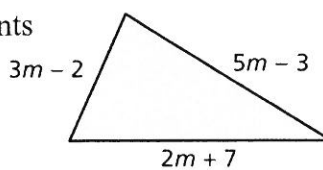
6.  $(k + 3) - (3k - 5)$

7.  $(-6d + 2) - (7 + 2d)$

8.  $(7 - 3t) - 5(-1.6t + 5)$

9.  $(3x + 8) - 6(2.5x - 3)$

10. Write a simplified expression that represents the perimeter of the triangle.



### Section 3.3: Solving Equations by Adding or Subtracting Notes

POD: Find each sum or difference

1.)  $(-3y + 16) + 3(5y - 4)$

2.)  $(5x + 7) - (3x - 2)$

Objective: Students will solve simple equations using addition and subtraction.

Vocabulary:

1. variable - a letter that represents an unknown number
2. inverse operations - operations that undo each other

Operation	Inverse Operation
Adding	Subtracting
Subtracting	Adding
Multiplying	Dividing
Dividing	Multiplying

Steps/Rules for Solving an Equation:

1. You want the variable to be alone on one side of the equation.
2. Use inverse operations to get the variable alone.
3. Check your solution using the original equation.

\*\*Think of an equation as a balance scale. When you do something to one side of the equation, you must do the same thing to the other side of the equation to keep it "balanced".

Examples:

1.)	2.)
3.)	4.)



5.)	6.)
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7.) Find the number: 4 less than a number  $n$  is  $-15$ .

Name: \_\_\_\_\_

Section 3.3: Solving Equations by Adding and Subtracting Homework Day 1

1.) $x - 6 = -55$	2.) $-455 = n - 255$	3.) $-83.4 + m = 122$
4.) $x - 32.8 = -27$	5.) $-37 + h = -42$	6.) $q - 16 = 40$
7.) $k - (-17) = 29$	8.) $261.9 + d = -48$	9.) $x + 34 = 212$

10.) Find the number: 10 more than a number  $x$  is 3.

**3.3****Solving Equations by Adding and Subtracting Homework Day 2**

Solve the equation. Check your solution. Circle your final answer.

1.  $x + 3 = 10$

2.  $b - 6 = -14$

3.  $5 = n + 9$

4.  $y - 2.1 = 7.5$

5.  $-6.4 = x + 4.3$

6.  $k - \frac{1}{3} = \frac{5}{6}$

7.  $10.5 + p = -8.32$

8.  $3\frac{3}{4} = r + \frac{1}{8}$

9.  $m + 1.06 = 5$

Find each number.

10. 5 more than a number  $y$  is  $-2$ .

11.  $-13$  is 4 less than a number  $n$ .



### Section 3.4: Solving Equations Using Multiplying or Dividing Notes

POD: Solve each equation.

1.)  $-6 + x = -18$

2.)  $-11 = 7 + x$

**Objective:** Students will be able to solve equations using multiplication or division.

**Rules/Steps for Solving an Equation:**

1. You want the variable to be alone on one side of the equation.
2. Use inverse operations to get the variable alone.
3. Check your solution using the original equation.

**\*\*Think of an equation as a balance scale. When you do something to one side of the equation, you must do the same thing to the other side of the equation to keep it "balanced".**

**Examples:**

1.) $7x = 91$	2.) $\frac{y}{-5.5} = -23$
3.) $-4n = -21.6$	4.) $8.2 = \frac{x}{-3}$

$$5.) \frac{2}{3}x = -4$$

$$6.) -\frac{8}{5}x = 5$$

Find the number.

7.) The product of 15 and a number is -75.

**3.4**

## Solving Equations with Multiplication and Division Homework Day 1

Solve the equation. Check your solution.

1.  $\frac{d}{5} = -6$

2.  $8x = -6$

3.  $-15 = \frac{z}{-2}$

4.  $3.2n = -0.8$

5.  $-\frac{3}{10}h = 15$

6.  $\frac{2}{3}k = -4$

Write the word sentence as an equation. Then solve.

7. A number divided by  $-8$  is  $7$ .8. The product of  $-12$  and a number is  $60$ .9. You earn  $\$0.85$  for every cup of hot chocolate you sell. How many cups do you need to sell to earn  $\$55.25$ ?

**3.4**

## Solving Equations with Multiplication and Division Homework Day 2

**Solve the equation. Check your solution.**

1.  $\frac{1}{4}b = 24$

2.  $-7n = 35$

3.  $\frac{y}{-3} = 33$

4.  $\frac{p}{5} = -32$

5.  $-3t = -4.2$

6.  $1.5q = -8.4$

7.  $-\frac{1}{5}d = -3$

8.  $14 = 3y$

9.  $\frac{5}{8}j = -10$

**Find the number.**10. A number multiplied by  $-5.5$  is  $22$ .11. The quotient of a number and  $0.2$  is  $-2.6$ .**Solve.**12. You earn  $\$7.50$  per hour at a fast food restaurant. You earned  $\$123.75$  last week. How many hours did you work last week?

## Section 3.5: Solving Two Step Equations Notes

POD: Solve each equation.

1.)  $-6x = 49.2$

2.)  $7 = -\frac{x}{4.2}$

**Objective:** Students will be able to solve two-step equations.

**Vocabulary:**

- 1.) Variable - a letter that represents an unknown number
- 2.) Inverse Operations - operations that undo each other

Operation	Inverse Operation
Adding	Subtracting
Subtracting	Adding
Multiplying	Dividing
Dividing	Multiplying

**Steps for Solving an Equation:**

- 1.) Locate the variable.
- 2.) Undo addition or subtraction.
- 3.) Undo multiplication or division.
- 4.) Check your solution using the original equation.

**Examples**

1.) $3n - 6 = 15$	2.) $11 = 13 + \frac{x}{3}$
3.) $8 - \frac{x}{4} = -6$	4.) $-5.8 + 6n = -23.8$

$$5.) 12x - 8x = -52$$

$$6.) \frac{x}{4} - \frac{5}{6} = \frac{1}{2}$$

$$7.) 5 - x = -10$$

Name: \_\_\_\_\_

### Section 3.5: Solving Two Step Equations Homework Day 1

Solve each equation.

1.)  $82 = -4x + 2$

2.)  $5 - x = 19$

3.)  $14 = -4 + \frac{x}{5}$

4.)  $12 + 3x = -54$

5.)  $-8.15 - \frac{b}{2} = -6.3$

6.)  $-20 = -6 - 7x$

7.)  $7n + 16 = 100$

8.)  $5x + 3x = 48$

9.) How do you check to make sure an equation is correct? Explain how you would check #7.

**3.5****Solving Two Step Equations Homework Day 2**

Solve the equation. Check your solution.

1.  $3k - 2 = 10$

2.  $-10 = 2 + 5p$

3.  $-4x + 3 = -11$

4.  $5 - \frac{x}{2} = 8$

5.  $-1 - 5h = 14$

6.  $2.5 = -7 + 1.25r$

7.  $-4k + 3.6 = 7.8$

8.  $-6 - n = 3$

9.  $3 - \frac{x}{4} = -6$

10.  $7c - 2c = 45$

11.  $\frac{5}{6} + 3j = -\frac{2}{3}$

12.  $3(k - 5) = -16$

13. The quotient of a number and  $-1.5$  is  $21$ . Find the number.



## Section 3.5E: Two-Step Equation Word Problems Notes

POD: Solve each equation.

1.)  $-6x + 4 = -20$

2.)  $\frac{x}{4} + 7 = 10$

**Objective:** Students will be able to solve two-step word problems.

**Steps for Writing an Equation:**

- 1.) Read the problem to determine the number that represents the total - put this number after the equal sign.
- 2.) Determine what is missing - make this the variable.
- 3.) Determine the operation of the word problem.
- 4.) Solve the equation and label the solution with the correct unit.

**Examples:** Write an equation for each problem. Then solve.

1.) It costs \$2.50 to rent bowling shoes. Each game costs \$2.25. You have \$9.25. How many games can you bowl?

**Equation:**

**Answer:**

2.) The length of a rectangle is 4 meters more than twice its width. If the length of the rectangle is 14 feet, what is the width of the rectangle?

**Equation:**

**Answer:**

3.) Kyle bought a Nintendo Wii for \$199 and some games that cost \$46.99 each. The total cost was \$386.96. Write and solve an equation to find how many games Kyle bought.

**Equation:**

**Answer:**

4.) Joe's Grandpa is 75 years old. This is nine years less than seven times Joe's age. How old is Joe?

**Equation:**

**Answer:**

Name \_\_\_\_\_

**3.5E: Two Step Word Problems Homework Day 1**

- 1.) Claire bought a vase that cost \$5.99 and roses that cost \$1.25 each. The total cost was \$20.99. How many roses did Claire buy? Write an equation and solve.
  
- 2.) Susie wanted to make a poster for her math presentation. She bought markers that cost \$0.79 each and a poster board that cost \$1.25. The total cost was \$7.57. How many markers did she buy? Write an equation and solve.
  
- 3.) Maggie is 29 years old which is 2 more than 3 times Vic's age. How old is Vic? Write an equation and solve.
  
- 4.) Molly rented a moving van for a flat rate of \$45 plus \$0.27 for each mile driven. When Molly returned the van, she paid \$77.40. How many miles did Molly drive? Write an equation and solve.
  
- 5.) A skating rink rents skates at \$3.95 for the first hour plus \$1.25 for each additional hour. When you returned the skates, you paid \$7.70. How many additional hours did you keep the skates? Write an equation and solve.
  
- 6.) An online company is having a sale, DVD are on sale, DVDs cost 6.95 each plus shipping & handling of \$5.25. You only have \$40.00 to spend. How many DVDs can you buy? Write an equation and solve.

Name: \_\_\_\_\_ Units: \_\_\_\_\_ Date: \_\_\_\_\_

### Section 3.5E: Two Step Word Problems Homework Day 2

Write a two-step equation for each problem. Then solve your equation and check your answer. Show all of your work!

1.) Kelly bought an ice cream sundae for \$2.50 plus \$0.35 per topping. Altogether the ice cream sundae cost her \$3.55. How many toppings did Kelly have on her sundae?

Equation:

Answer:

2.) Emily bought a camera for \$125 and printed pictures for \$0.15 each. She spent \$134.60 on her camera and pictures. How many pictures did Emily print?

Equation:

Answer:

3.) Hunter was having a pool party. The pool cost \$225 to rent plus \$35 per hour. He paid \$400 for his party. How many hours did Hunter's party last?

Equation:

Answer:

4.) The length of a rectangle is 3 meters less than twice its width. If the length of the rectangle is 11 meters, what is the width of the rectangle?

Equation:

Answer:

5.) Jim is 5 less than 4 times Amanda's age. If Jim is 31 years old, how old is Amanda?

Equation:

Answer:

6.) The floor of a canyon has an elevation of -14.5 feet. Erosion causes the elevation to change by -1.5 feet per year. How many years will it take for the canyon floor to have an elevation of -31 feet.

Equation:

Answer:

### Unit 3: Expressions and Equations Homework Answer Key:

#### 3.0 Homework Answer Key:

1.) $(4 \times 30) + (4 \times 1) = 120 + 4 = 124$				2.) $(7 \times 40) + (7 \times 9) = 280 + 63 = 343$			
3.) 228	4.) $40 + 8w$	5.) $99 + 11d$	6.) $15p - 30$	7.) $5x - 4$	8.) $y + 1$	9.) $3x - 8$	
10a.) $31(20 - x) + 74(10 - y) = 1360 - 31x - 74y$				10b.) \$785			

#### 3.1 Homework Day 1 Answer Key:

1.) Terms: 3x, 4, -7x, -6 LT: 3x & -7x; 4 & -6				2.) Terms: -9, 2.5y, -0.7y, 1, 6.4y <sup>2</sup> LT: 2.5y & -0.7y; 9 & 1			
3.) $3a^2 + 7$	4.) $-3m + \frac{2}{3}$	5.) $4x^2 + 4x + 9$	6.) $7d - 5$	7.) $11g + 8k$	8.) $4p - 8$	9.) $20w + 9m$	

#### 3.1 Homework Day 2 Answer Key:

1.) Terms: -4y, 7, 9y, -3; LT: -4y & 9y; 7 & -3				2.) Terms: $3n^2$ , -1.4n, $5n^2$ , -6.4; LT: $3n^2$ & $5n^2$			
3.) -6m	4.) $14k - 8$	5.) $10.3 - 12x$	6.) $-8x^2 + 13x$	7.) $21a^2 - 3a - 5$	8.) $27x - \frac{89}{6}(27x - 14.83)$		
9.) $8 + 8 + 9x + 9x = 18x + 16$				10.) yes; $15a^2 - 4b$			

#### 3.2 Homework Day 1 Answer Key:

1.) $2x + 4$	2.) $-2n - 1$	3.) $-4y + 5$	4.) $-13k - 7$	5.) $3g - 4$	6.) $3r - 2$	7.) $2x + 17$
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#### 3.2 Homework Day 2 Answer Key:

1.) $2p - 10$	2.) $2n + 3$	3.) $8.2c - 18$	4.) $6.5y + 13$	5.) $15t + 2$	6.) $-2k + 8$	7.) $-8d - 5$
8.) $5t - 18$	9.) $-12x + 26$	10.) $10m + 2$				

#### 3.3 Homework Day 1 Answer Key:

1.) $x = -49$	2.) $n = -200$	3.) $m = 205.4$	4.) $x = 5.8$	5.) $h = -5$	6.) $q = 56$	7.) $k = 12$
8.) $d = -309.9$	9.) $x = 178$	10.) $x = -7$				

#### 3.3 Homework Day 2 Answer Key:

1.) $x = 7$	2.) $b = -8$	3.) $n = -4$	4.) $y = 9.6$	5.) $x = -10.7$	6.) $k = 1\frac{1}{6}$	7.) $p = -18.82$
8.) $r = 3\frac{5}{8}$	9.) $m = 3.94$	10.) $y = -7$	11.) $n = -9$			

#### 3.4 Homework Day 1 Answer Key:

1.) $d = -30$	2.) $x = -0.75$	3.) $z = 30$	4.) $n = -0.25$	5.) $h = -50$	6.) $k = -6$	7.) $\frac{x}{-8} = 7; x = -56$
8.) $-12x = 60; x = -5$		9.) $0.85x = 55.25; 65 \text{ cups}$				

**3.4 Homework Day 2 Answer Key:**

1.) $b = 96$	2.) $n = -5$	3.) $y = -99$	4.) $p = -160$	5.) $t = 1.4$	6.) $q = -5.6$	7.) $d = 15$	8.) $y = 4\frac{2}{3}$
9.) $j = -16$	10.) $-5.5x = 22; x = -4$	11.) $\frac{x}{0.2} = -2.6; x = -0.52$	12.) $7.50x = 123.75; x = 16.5$ hours				

**3.5 Homework Day 1 Answer Key:**

1.) $x = -20$	2.) $x = -14$	3.) $x = 90$	4.) $x = -22$	5.) $b = -3.7$	6.) $x = 2$	7.) $n = 12$	8.) $x = 6$
9.) Plug in your answer to the equation to see if it makes the equation true. $7(12) + 16 = 100$ ; $84 + 16 = 100$ ; $100=100$ ; Therefore the statement is true!							

**3.5 Homework Day 2 Answer Key:**

1.) $k = 4$	2.) $p = -2.4$	3.) $x = 3.5$	4.) $x = -6$	5.) $h = -3$	6.) $r = 7.6$	7.) $k = -1.05$	8.) $n = -9$
9.) $x = 36$	10.) $c = 9$	11.) $j = -0.5$	12.) $k = -\frac{1}{3}$	13.) $\frac{x}{-1.5} = 21; x = -31.5$			

**3.5E Homework Day 1 Answer Key:**

1.) $5.99 + 1.25x = 20.99$ ; 12 roses	2.) $0.79x + 1.25 = 7.57$ ; 8 markers	3.) $2 + 3x = 29$ ; 9 years old
4.) $45 + 0.27x = 77.40$ ; 120 miles	5.) $3.95 + 1.25x = 7.70$ ; 3 hours	6.) $6.95x + 5.25 = 40$ ; 5 dvds

**3.5E Homework Day 2 Answer Key:**

1.) $2.50 + 0.35x = 3.55$ ; 3 toppings	2.) $125 + 0.15x = 134.60$ ; 64 pictures	3.) $225 + 35x = 400$ ; 5 hours
4.) $2x - 3 = 11$ ; 7 meters	5.) $4x - 5 = 31$ ; 9 years old	6.) $-14.5 - 1.5x = -31$ ; 11 years

