

**Read page 85 of your textbook from my website.**

**Answer the following questions about the expression:**  $5a^3 - 7b + a^3 + 4 + 3c^2$ .

1. List the terms of the expression: \_\_\_\_\_
2. The coefficient of  $b$  is \_\_\_\_\_.
3. The coefficient of  $c^2$  is \_\_\_\_\_.
4. List any like terms in this expression: \_\_\_\_\_.
5. \_\_\_\_\_ is a constant.

**Simplify each expression.**

6.  $12r - r + 5g - 2 \cdot 3r$

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

8.  $32 \div 8 - 2 \cdot 2 + 4^3$

9.  $3x + 24x \div 6 - 4$

10. Read p. 73-74 of the textbook. Copy the Commutative Property of Addition here.

11. Explain the Commutative Property in your own words.

12. Does the commutative property work for subtraction, multiplication and division? Justify your answer for each with an explanation or an example.

**Thinking Ahead About Factors and Multiples – Read p. 6 of your textbook.** You should understand these questions fully before the next class. Check your answers with the key on your instructor's website. You can get help with this work from the following sources:

- Visit your instructor during office hours
- Go to the Algebra Alcove

13. List all of the factors of 24.

14. Find a common multiple of 12 and 20.

15. Write each term in the appropriate blank.

**Factor(s)**            **multiple(s)**            **prime**            **composite**            **prime factorization**

a. 15 is a \_\_\_\_\_ number and 19 is a \_\_\_\_\_ number.

b.  $2 \cdot 3 \cdot 5$  is the \_\_\_\_\_ of 30.

c. 60 and 90 are \_\_\_\_\_ of 30.

d. 1, 2, 3, 5, 6, 10, 15, 30 are the \_\_\_\_\_ of 30.