

Day 3 Homework – Expressions

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

1. List all of the factors of 24.

$$24 = 1, 2, 3, 4, 6, 8, 12, 24$$

2. Find a common multiple of 12 and 20.

$$12 = 2 * 2 * 3$$

$$20 = 2 * 2 * 5$$

A common multiple would be $2*2*3*5$, 60 or $2*2*3*2*2*5$, 240.

3. Write each term in the appropriate blank.

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

a. 15 is a composite number and 19 is a prime number.

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

c. 60 and 90 are multiples of 30.

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