

Name: _____

Period: _____

Date: _____

Math Unit 1: Numerical Expressions and Factors**Lesson 1.6- Least Common Multiple****SWBAT:****Paraphrase:****Essential Question:** How can you find the least common multiple of two numbers?

Example 1

Find the LCM of 4 and 6.

List the multiples of each number.

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36, ...**Multiples of 6:** 6, 12, 18, 24, 30, 36, ...

Circle the common multiples.

Some common multiples of 4 and 6 are 12, 24, and 36. The least of these common multiples is 12.

❖ So, the LCM of 4 and 6 is 12.

Your Turn

Find the LCM of the numbers using lists of multiples.

1. 3, 8

2. 9, 12

3. 6, 10

Example 2

Ladder Method: Find the LCM of 16 and 20.

$$\begin{array}{r}
 2 \overline{) 16 \quad 20} \\
 \underline{2 \overline{) 8 \quad 10}} \\
 \quad 4 \quad 5
 \end{array}$$

$$\begin{array}{r}
 2 \overline{) 16 \quad 20} \\
 \underline{2 \overline{) 8 \quad 10}} \\
 \quad 4 \quad 5
 \end{array}$$

$$2 \cdot 2 \cdot 4 \cdot 5 = 80$$

$$\underline{\underline{LCM = 80}}$$

