**Least Common Multiples Notes**

**Use Venn diagrams to find the least common multiple of two numbers.**

**Steps:**

1. Use the factor tree method to list the prime factors of each number.
2. Write the common prime factors in the center of the Venn diagram.
3. List the remaining prime factors in the outside circles
4. Multiply all the prime factors to get the LCM

**Ex: Find the LCM of 12 and 28.**

**Step 2******

**Step 1:**

 **12**  **28**

6 2 7 4

 3 2 2 2

 16 = 2•2•3 28 = 2•2•7

**28**

**12**

2

7

3

2

**Step 3:**

 LCM = 3•2•2•7 = 84

Practice:

1. Find the LCM of 10 and 15

1. Find the LCM of 14 and 12
2. Find the LCM of 8 and 6
3. Find the LCM of 8 and 12
4. Find the LCM of 9 and 15

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**KEY**

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**Ex: Find the LCM of 12 and 28.**

**Step 2******

**Step 1:**

 **12**  **28**

6 2 7 4

 3 2 2 2

 16 = 2•2•3 28 = 2•2•7

**28**

**12**

2

7

3

2

**Step 3:**

 LCM = 3•2•2•7 = 84

Practice:

1. Find the LCM of 10 and 15

LCM = 30

1. Find the LCM of 14 and 12

LCM = 84

1. Find the LCM of 8 and 6

LCM = 24

1. Find the LCM of 8 and 12

LCM = 24

1. Find the LCM of 9 and 15

LCM = 45