

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

## Least Common Multiples

Find the least common multiple (LCM) of 2 and 3.

The multiples of 2 are: **2, 4, 6, 8, 10, 12, 14, 16, 18 ...**

The multiples of 3 are: **3, 6, 9, 12, 15, 18 ...**

The common multiples of 2 and 3 are: **6, 12, 18 ...**

The least common multiple of 2 and 3 is **6**.



Find the LCM.

a. 4 and 12

LCM = \_\_\_\_\_

b. 5 and 7

c. 8 and 20

d. 3 and 6

LCM = \_\_\_\_\_

LCM = \_\_\_\_\_

LCM = \_\_\_\_\_



g. Is it possible to list all of the multiples of 12? Explain.

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h. Explain the difference between a multiple and a factor.

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# ANSWER KEY

## Least Common Multiples

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The multiples of 2 are: **2, 4, 6, 8, 10, 12, 14, 16, 18 ...**

The multiples of 3 are: **3, 6, 9, 12, 15, 18 ...**

The common multiples of 2 and 3 are: **6, 12, 18 ...**

The least common multiple of 2 and 3 is **6**.



Find the LCM.

a. 4 and 12

LCM = 12

d. 3 and 6

LCM = 6

LCM = 70

LCM = 60

g. Is it possible to list all of the multiples of 12? Explain.

**No, because there are an infinite number of multiples of any number.**

h. Explain the difference between a multiple and a factor.

**Factors are numbers that can be multiplied together to make a number. (example: 1 and 3 are factors of 6.) Multiples are the products of numbers. (example: multiples of 6 are 6, 12, 18, 24, and so on)**

