

Name: _____

MULTIPLES

A **multiple** of a number is the product of that number and any other *whole* number. *This means that every number is a multiple of each of its factors.*

Examples:

18 is a multiple of 3 because $6 \times 3 = 18$.

18 is also a multiple of 1, 2, 6, 9 and 18 because each of these numbers is a factor of 18.

18 is a multiple of 3. But it is not the only multiple of 3. The numbers 0, 3, 6, 9, 12, and 15 are also multiples of 3. WHY?

Every number has an infinite number of multiples.

For example, the multiples of 4 are: 0, 4, 8, 12, 16, 20 . . . (The list goes on and on.)

1. What are the first six multiples of 5?
2. What are the first six multiples of 8?
3. What number is a multiple of every number? _____
4. Circle the numbers below which are multiples of both 6 and 9.
0 9 12 18 24 27 36 42 45
5. What is the smallest multiple (other than zero) of both 3 and 9?
6. What is the smallest multiple (other than zero) of both 4 and 6?

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7. List all the *factors* of 9:

List the first six multiples of 9:

8. List all the factors of 6:

List the first six multiples of 6:

9. What is the smallest multiple (other than zero) of both 6 and 9?

10. What is the smallest multiple (other than zero) of *both* 9 and 12?

11. What is the greatest common factor (largest factor of *both*) 9 and 12?

12. Which of the following is a multiple of 12?

28 35 49 65 72