

Identifying multiplication

When you first learned about multiplication you most likely learned about the times symbol \times . Now that you are getting into more advanced math, the traditional symbol \times can often be confused for x . Many textbooks will now be using parentheses or a dot instead of the times symbol.

Multiplication Symbols:

Times

$$a \times b = c$$

Dot

$$a \cdot b = c$$

Parentheses

$$(a)(b) = c$$

Variables next to each other

$$ab = c$$

The last way to multiply (no symbols) is only to be used with variables. If there are two numbers being multiplied you must use a multiplication symbol.

Example

Write 5 times 2 three different ways.

When we multiply 5 and 2 together, we can write that as

$$5 \times 2 = 10$$

$$5 \cdot 2 = 10$$



$$(5)(2) = 10$$

Let's try another example to identify multiplication.

Example

Simplify the expression.

$$2 \cdot 4 \times 3(5)(2 \cdot 2)$$

All of these symbols represent multiplication. Remember that multiplication can be done in any order.

$$8 \times 3(5)(2 \cdot 2)$$

$$8 \times 15(4)$$

$$8 \times 60$$

$$480$$

