

# Using a Scientific Calculator



## Objective

In this lesson, you will

## Introduction



The multiplication expression  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$  can be written as the \_\_\_\_\_ expression  $2^7$ . (You can also write  $2^7$  as  $2^7$ .)

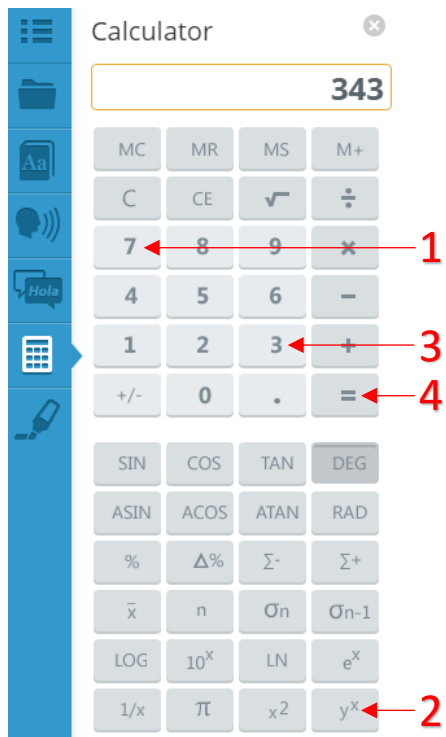


What exponential expression represents the multiplication expression  $6 \times 6 \times 6 \times 6$ ?

- $4^6$       $6^4$

## Simplifying Exponents Using a Calculator

The \_\_\_\_\_ of water needed to fill a cubic fish tank can be found using a scientific calculator. For a fish tank that is 7 inches on each side and 7 inches deep, the volume is \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_, or  $7^{\text{_____}}$ , cubic inches.



### Calculator steps to solve:

1. Press the number \_\_\_\_, which is the \_\_\_\_ number.
2. Press the \_\_\_\_\_ key.
3. Press the number \_\_\_\_, which is the \_\_\_\_\_.
4. Press the \_\_\_\_\_ (=), after which the answer \_\_\_\_\_ shows up on the display screen.



Sam's new room is square, and each side measures 15 feet. What is the area of the room?

Simplify the expression \_\_\_\_ ^ \_\_\_\_ to find the area, which is \_\_\_\_\_ square feet.

## Calculating Operations with Exponents

Step 1. **P** \_\_\_\_\_, or grouping symbols

Step 2. **E** \_\_\_\_\_

Step 3. **M** \_\_\_\_\_ and **D** \_\_\_\_\_, whichever comes first  
going left to right

Step 4. **A** \_\_\_\_\_ and **S** \_\_\_\_\_, whichever comes first  
going left to right



You can call these steps \_\_\_\_\_. One way to remember the steps is to recall this sentence: **Please Excuse My Dear Aunt Sally**.

