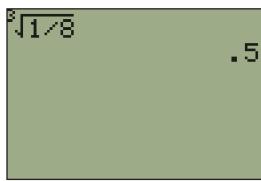


## TI-84™ Skills Lesson 1.3: Radicals

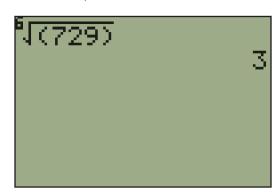
If the question you are given is looking for the cube root, or any root other than a square root, you will need to navigate to the correct location on your calculator to evaluate the problem.

a. Calculate  $\sqrt[3]{\frac{1}{8}}$ .



- Press [MATH]
- Press [4]
- Press [(] [1] [÷] [8] [)]
- Press [ENTER]

b. Calculate  $\sqrt[6]{729}$ .



- Press [6]
- Press [MATH]
- Press [5]
- Press [(] [7] [2] [9] [)]
- Press [ENTER]

## **Lesson 1.3: Using Exponents**

It is important to use brackets when inputting calculations into your calculator following BEDMAS rules (Brackets, Exponents, Division/Multiplication, Addition/Subtraction). It is better to use too many brackets than not enough.

a. Calculate 
$$S_8 = \frac{16[(\frac{1}{4})^8 - 1]}{\frac{1}{4} - 1}$$

While this question can be done all in one step, it is less complicated to do it in two steps: calculate the numerator, then divide by the denominator.

1. Calculate the numerator.

- Press [1] [6] [×] [(]

- Press [ENTER]

2. Divide by the denominator.

- Press [÷][(]
- Press [(] [1] [÷] [4] [)]