

## What Is Representing Exponential Form as Repeated Multiplication?

- An exponent is a smaller-sized number which appears to the right and slightly above a number. It looks like this:

$$8^2 \qquad 10^{10} \qquad 5^3 \qquad 15^4$$

- An exponent indicates how many times to multiply the number by itself.

$$8^2 = 8 \times 8$$

$$10^{10} = 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$$

$$5^3 = 5 \times 5 \times 5$$

$$15^4 = 15 \times 15 \times 15 \times 15$$

How to

- To

ation:

by



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$$9^3 = 9 \times 9 \times 9$$

$$25^2 = 25 \times 25$$

$$12^4 = 12 \times 12 \times 12 \times 12$$

- After writing the numerical expression as repeated multiplication, check that the number has been written the same number of times as the exponent indicates.

## Try This!

What would the repeated multiplication expression look like for each of these?

$6^5$  \_\_\_\_\_

$14^4$  \_\_\_\_\_



$63^2$  \_\_\_\_\_

$10^3$  \_\_\_\_\_

$17^6$  \_\_\_\_\_



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