

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:

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

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

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

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

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

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



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How to represent

Exponential Form as Repeated Multiplication:

- The exponent indicates how many times to multiply the number by itself. Use the following examples:

is multiplied by

$$10^5 = 10 \times 10 \times 10 \times 10 \times 10$$

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

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

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

- 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 _____



PREVIEW

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