

EVALUATING EXPRESSIONS HAVING EXPONENTS

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

$$15^2$$

$$25^3$$

$$8^4$$

$$10^5$$

- Evaluating an expression containing a number with an exponent means to write the repeated multiplication form and perform the operation.

$$15^2 = 15 \times 15 = 225$$

$$25^3 = 25 \times 25 \times 25 = 15,625$$

$$8^4 = 8 \times 8 \times 8 \times 8 = 4096$$

How to evaluate

- Change the repeated multiplication form:


$$12^2 = 12 \times 12$$

- Perform the repeated multiplication operation:

$$12^2 = 12 \times 12 = 144$$

- If the number with the exponent is in a 2-step problem, evaluate the exponent first and then perform the other operations:

$$12^2 + 5 = (12 \times 12) + 5 = 144 + 5 = 149$$



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Try This!

11^2 _____

32^2 _____

10^3 _____

$8^2 + 5$ _____

$2^4 - 8$ _____

**PREVIEW**

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