

Quizzes		
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- Review exponent basics
- Understand powers with negative BASES
- Understand powers with negative EXPONENTS
- Multiply powers with the same base
- Divide powers with the same base





Evaluate means "find the value of"...

Evaluate the following:

- I. 5⁴
- 2. $2^7 + 2^2$
- 3. (-3)⁴
- 4. (-4)⁴



IMPORTANT

- When you plug a negative number in for x always put it in parentheses!!!
- Ex: Plug in -2 into x^2 and it would be $(-2)^2$ NOT -2^2







IMPORTANT

 An expression that contains negative or zero exponents is not considered to be simplified.
Expressions should be rewritten with only positive exponents.







4-2	<u>1</u> 16
2 ⁻³	$\frac{1}{8}$
10 ⁻³	$\frac{1}{1000}$
2^{-4}	$\frac{1}{16}$
7 ⁻¹	$\frac{1}{7}$
Exampl head!!!	es – Try these in your











Examples: Mu	ıltiplying
I. a ⁴⁵ •a ²²	a ⁶⁷
2. 6⁵•6 ³	6 ⁸
3. x ³ •y ⁵ •y ² •x	x ⁴ •y ⁷
4. 12j ⁵ •3j ²	$12 \cdot j \cdot j \cdot j \cdot j \cdot j \cdot 3 \cdot j \cdot j$ $= 36j^7$
•	

1. $\frac{a^{45}}{a^{22}}$		
2. $\frac{6^5}{6^3}$		
3. $\frac{x^3y^5}{xy^2}$		
4. $\frac{12j^5}{2j^2}$		

a ⁴⁵	
a^{22}	a ²³
$2 \frac{6^5}{10^5}$	62
- 6 ³	C
$x^3 v^5$	x ² •y ³
3. $\frac{x^2y}{xy^2}$	12
10.5	$\frac{12 \cdot j \cdot j \cdot j \cdot j}{2}$
4. $\frac{12j^3}{2j^2}$	3 • J • J









