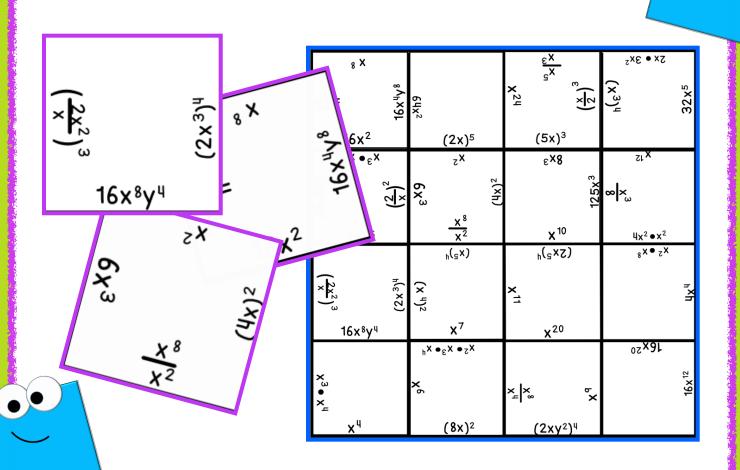
Properties of Exponents Puzzle Activity



No Preparation Needed!

Exponent Rules Puzzle

- 1. Cut out the sixteen puzzle pieces
- 2.Pair up the matching expressions (each unsimplified expression has a matching simplified expression)

Example:

3. When complete, the puzzle will be a four-by-four square.

Good Luck!

×2 -	₈ x = 16x ²	16× ⁴ y ⁸	64x ²	(2x) ⁵		× ²⁴	εx ςx	$\left(\frac{x}{2}\right)^3$	zxe • xz (×3) ⁴	32x ⁵
	8 X ● E X			ZX			8x3	8	Zl X	
(2ײy) ⁴		$\left(\frac{2}{\times}\right)^2$	6x ³		$(4x)^2$			125x ³	$\infty \times_{\omega}$	
Ē	(x ⁴) ⁶			$\frac{x^8}{x^2}$			X 10		4x²•x²	
				(x ₂)			μ(²xΣ)		8 X ● ^Z X	
$\left(\frac{2x^2}{x}\right)^3$		$(2x^3)^{4}$	(x 4)2			×±				Ч×Ч
	16x8y4	•	.9	x ⁷			x ²⁰			
									YOL	
			hΧ	• ₂ X • ₂ X					_{0Z} X9L	
׳• × ⁴			× ₆	• ₈ X • ₇ X		×ڀ×	0	×	0Z^JF	16× ¹²

Puzzle Answer Key

X3 • X ⁴ ×	×ٍـ ×ֱ	×	6կײ (2x)⁵
x ³ • x ⁴ ∠X (x ⁵) ⁴	$\frac{\sqrt{\frac{x}{2}}}{\sqrt{\frac{x}{2}}}$		(x ³) ⁴
_{0Z} X	9(h×) 9(h×)		ω×ω ×ω
(2x ⁵) ⁴ _{0Z} X9L ₇₂ ₇₂ ₇₄	$(2x^{2}y)^{4}$ $h^{4}8x9L$ $(2x^{3})^{4}$ $(2x^{2}y)^{4}$	ε ^Χ ΩΓ ε ^Χ ΩΓ *×	Чх ² • х ² h Х h × 2 • × ∞

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