math Antics
Exercises

Name:

Date:

Laws of Exponents

1 Simplify this expression.

$$5^0 =$$

2 Simplify this expression.

$$y^1 =$$

3 Simplify this expression.

$$2^{-1} =$$

4 Re-write <u>without</u> using fraction form.

$$\frac{1}{x^3} =$$

5 Simplify this expression.

$$(x^2)^5 =$$

6 Simplify this expression.

$$(x^a)^b =$$

7 Simplify this expression.

$$a^2 \cdot a^4 =$$

8 Simplify this expression.

$$a^2 \cdot a^{-4} =$$

9 Simplify this expression.

$$\frac{x^7}{x^5} =$$

10 Can this be simplified? If "yes", then simplify it. If "no", then explain why.

$$\frac{a^2}{b^8} =$$

11 Simplify this expression.

$$(ab)^3 =$$

12 Simplify this expression.

$$\left(\frac{x}{2y}\right)^2 =$$

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