Algebra 1 7.1

Multiply monomials using the properties of exponents

Simplify expressions using properties of exponents

monomial constant linear nonlinear exponent base

activity: triangle puzzles (if time) 5 in a row

KeyConcept Simplify Expressions

To simplify a monomial expression, write an equivalent expression in which:

- each variable base appears exactly once,
- there are no powers of powers, and
- all fractions are in simplest form.

Circle song?
$$\frac{f = \pi r}{C = \pi d}$$

Circle song?
$$\frac{A = \pi r^2}{C = \pi d}$$
Triangle puzzle
$$A = \frac{1}{2}bh$$

$$A = \pi r^{2}$$

$$= \pi (2abb)(2abb)$$

$$= 4\pi a^{2}b^{4}$$

$$base = 4xy^{2}$$

$$= \frac{1}{2}(4xyy) \cdot (3xxyy)$$

$$height = 3x^{2}y^{2}$$

$$= 6x^{3}y^{4}$$

$$\begin{bmatrix}
(-2x^2y^3)^2\\
(-2x^2y^3)^2\\
(-3x^2y^3)^2\\
(-3x^2y^3)^$$