# Lesson 7.2 Practice: Zero and Negative Exponents

School Launch · Algebra I · Unit 7: Exponents and Exponential Functions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

**1.** Simplify; write with positive exponents only: $4^{-2}$.

EASY

**2.** Simplify; write with positive exponents only: $2^{-3}$.

EASY

**3.** Simplify; write with positive exponents only: $5^{-1}$.

EASY

**4.** Simplify; write with positive exponents only: $\frac{4x^{-3}}{y^{-1}}$.

MEDIUM

**5.** Simplify; write with positive exponents only: $\frac{5x^{-6}}{y^{-1}}$.

MEDIUM

**6.** Simplify; write with positive exponents only: $\frac{5x^{-2}}{y^{-5}}$.

MEDIUM

**7.** Simplify; write with positive exponents only: $\frac{5x^{-2}}{y^{-4}}$.

MEDIUM

**8.** Simplify; write with positive exponents only: $\frac{(5x^{-2}y^{2})^{-2}}{x^{4}y^{-1}}$. HARD

**9.** Simplify; write with positive exponents only: $\frac{(4x^{-2}y^{1})^{-2}}{x^{5}y^{-1}}$. HARD

**10.** Simplify; write with positive exponents only: $\frac{(2x^{-2}y^{2})^{-2}}{x^{4}y^{-1}}$. HARD