Name: _____ Date: _____

MATH MONKS

Dividing Exponents

Simplify

$\frac{2^6}{2^3} =$ _____	$\frac{6^3}{3^2} =$ _____
$\frac{4^8}{4^{16}} =$ _____	$\frac{4r^2}{9r^3} =$ _____
$\frac{5x^3}{2x} =$ _____	$\frac{36x^8y^5}{24x^3y^7} =$ _____
$\frac{3^2}{3^3} =$ _____	$\frac{10z^4}{6z^2} =$ _____
$\frac{16x^3}{20x^5} =$ _____	$\frac{5x^8}{15x^6} =$ _____
$\frac{4^3}{2^3} =$ _____	$\frac{4x^4y^4}{14x^8y} =$ _____
$\frac{12x^3}{9x} =$ _____	$\frac{6^{-1}}{6^{-3}} =$ _____
$\frac{11x^5}{17x^7y^9} =$ _____	$\frac{5^3}{25} =$ _____

Name: _____ Date: _____

MATH MONKS

Dividing Exponents

Answers

$\frac{2^6}{2^3}$	$= 8$	$\frac{6^3}{3^2}$	$= 24$
$\frac{4^8}{4^{16}}$	$= \frac{1}{65{,}536}$	$\frac{4r^2}{9r^3}$	$= \frac{4}{9r}$
$\frac{5x^3}{2x}$	$= \frac{5x^2}{2}$	$\frac{36x^8y^5}{24x^3y^7}$	$= \frac{3x^5}{2y^2}$
$\frac{3^2}{3^3}$	$= \frac{1}{3}$	$\frac{10z^4}{6z^2}$	$= \frac{5z^2}{3}$
$\frac{16x^3}{20x^5}$	$= \frac{4}{5x^2}$	$\frac{5x^8}{15x^6}$	$= \frac{x^2}{3}$
$\frac{4^3}{2^3}$	$= 8$	$\frac{4x^4y^4}{14x^8y}$	$= \frac{2y^3}{7x^4}$
$\frac{12x^3}{9x}$	$= \frac{4x^2}{3}$	$\frac{6^{-1}}{6^{-3}}$	$= 36$
$\frac{11x^5}{17x^7y^9}$	$= \frac{11}{17x^2y^9}$	$\frac{5^3}{25}$	$= 5$