

Student Name: _____

Score: _____

Quotient Rule Worksheet

Sheet 1

Rewrite the following as single exponent using quotient rule:

Work Space

Example: $\frac{3^5}{3^2} = 3^{5-2} = 3^3$

$\frac{9^8}{9^4} =$ _____

$\frac{7^7}{7^6} =$ _____

$15^8 \times 15^{-3} =$ _____

$\frac{8^{10}}{8^{15}} =$ _____

$3^4 \times 3^{-2} =$ _____

$\frac{12^6}{12^1} =$ _____

$\frac{4^2}{4^9} =$ _____

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Answer key

Quotient Rule Worksheet

Sheet 1

$$\frac{9^8}{9^4} = 9^4$$

$$\frac{7^7}{7^6} = 7^1$$

$$15^8 \times 15^{-3} =$$

$$\frac{8^{10}}{8^{15}} = \frac{1}{8^5}$$

$$3^4 \times 3^{-2} = 3^2$$

$$\frac{12^6}{12^1} = 12^5$$

$$\frac{4^2}{4^9} = \frac{1}{4^7}$$

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