

Student Name: _____

Score: _____

Quotient Rule Worksheet

Rewrite the following as single exponent using quotient rule:

Work Space

$$b^4 b^{-11} = \underline{\hspace{2cm}}$$

$$x^{\frac{5}{7}} x^{-\frac{4}{7}} = \underline{\hspace{2cm}}$$

$$\left(\frac{c}{d}\right)^{-9} \left(\frac{c}{d}\right)^{11} = \underline{\hspace{2cm}}$$

$$z^{-4} z^2 = \underline{\hspace{2cm}}$$

$$a^{-\frac{11}{8}} a^{\frac{9}{8}} = \underline{\hspace{2cm}}$$

$$m^7 m^{-1} = \underline{\hspace{2cm}}$$

$$\left(\frac{s}{t}\right)^8 \left(\frac{s}{t}\right)^{-15} = \underline{\hspace{2cm}}$$

$$(-d)^{-7} (-d)^5 = \underline{\hspace{2cm}}$$

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Answers

$$b^4 b^{-11} = \frac{1}{b^7}$$

$$x^{\frac{5}{7}} x^{-\frac{4}{7}} = x^{\frac{1}{7}}$$

$$\left(\frac{c}{d}\right)^{-9} \left(\frac{c}{d}\right)^{11} = \left(\frac{c}{d}\right)^2$$

$$z^{-4} z^2 = \frac{1}{z^2}$$

$$a^{-\frac{11}{8}} a^{\frac{9}{8}} = \frac{1}{a^{\frac{1}{4}}}$$

$$m^7 m^{-1} = m^6$$

$$\left(\frac{s}{t}\right)^8 \left(\frac{s}{t}\right)^{-15} = \left(\frac{t}{s}\right)^7$$

$$(-d)^{-7} (-d)^5 = \frac{1}{d^2}$$