

$$1) \frac{10^5}{12_6} = \left(\frac{5}{6}\right)$$

$$7) \frac{35x^5}{21x^3} = \left(\frac{5}{3} \text{ or } 1\frac{2}{3}\right)$$

$$13) \frac{0}{9} = \left(0\right)$$

$$2) \frac{r^2q}{rq^2} = \left(\frac{r}{q}\right) \quad \begin{array}{l} r r q \\ r q q r \end{array}$$

$$8) \frac{5^5 15bc}{3^3 c^2} = \frac{5b}{3c} \quad \begin{array}{l} b c \\ c r \end{array}$$

or $1\frac{2}{3} \frac{b}{c}$

$$14) \frac{-13x}{26x^2} = \left(-\frac{1}{2x}\right) \quad \begin{array}{l} x \\ x x \end{array}$$

$$3) \frac{2^2 14x^2y}{21xy} = \left(\frac{2x^2}{3}\right) \quad \begin{array}{l} x x x y \\ x y \end{array}$$

$$9) \frac{3}{0} = \text{undefined}$$

$$15) \frac{x^2}{xy} = \left(\frac{x}{y}\right) \quad \begin{array}{l} x x x \\ x y \end{array}$$

General note:

You may choose to reduce in an order that differs from the key, but your final answer should always match.

$$4) \frac{1^1 8x}{24x^2} = \left(\frac{1}{3x}\right) \quad \begin{array}{l} x \\ x x \end{array}$$

$$10) \frac{3^3 24}{-32} = \left(-\frac{3}{4}\right)$$

$$16) \frac{3^3 42a}{-28a} = \left(-\frac{3}{2} \text{ or } -1\frac{1}{2}\right) \quad \begin{array}{l} x x x \\ x \end{array}$$

$$5) \frac{0}{7} = \left(0\right)$$

$$11) \frac{q^2x}{q^3r^2} = \left(\frac{1}{qr^2}\right) \quad \begin{array}{l} q r r \\ q r r r r \end{array}$$

$$17) \frac{-27^9}{-15_5} = \left(\frac{9}{5} \text{ or } 1\frac{4}{5}\right)$$

$$6) \frac{3^3 18y^2}{12y^2} = \left(\frac{3}{2y}\right) \quad \begin{array}{l} x x \\ x x y \end{array}$$

$$12) \frac{6^6 18}{21} = \left(\frac{6}{7}\right)$$

$$18) \frac{3}{0} = \text{undefined}$$