

Evaluating Expressions with Variables

Name: _____ Score: _____

Evaluate the expressions and determine the value of the variables.

$$\frac{1}{2} = \frac{3}{x}$$

$$\frac{h}{4} = \frac{1}{2}$$

$$\frac{2}{y} = \frac{3}{6}$$

$$\frac{3}{2} = \frac{t}{4}$$

$$\frac{s}{5} = \frac{4}{8}$$

$$\frac{1}{v} = \frac{4}{8}$$

$$\frac{1}{3} = \frac{3}{a}$$

$$\frac{r}{6} = \frac{1}{3}$$

$$\frac{10}{j} = \frac{5}{6}$$

$$\frac{2}{1} = \frac{x}{2}$$

$$\frac{b}{4} = \frac{3}{6}$$

$$\frac{m}{1} = \frac{4}{2}$$

$$\frac{1}{9} = \frac{9}{v}$$

$$\frac{y}{3} = \frac{3}{1}$$

$$\frac{1}{w} = \frac{3}{9}$$

$$\frac{8}{4} = \frac{a}{2}$$

$$\frac{d}{6} = \frac{6}{3}$$

$$\frac{10}{y} = \frac{5}{2}$$

Answers

Evaluate the expressions and determine the value of the variables.

$$\frac{1}{2} = \frac{3}{x}$$

$$x = 6$$

$$\frac{h}{4} = \frac{1}{2}$$

$$h = 2$$

$$\frac{2}{y} = \frac{3}{6}$$

$$y = 4$$

$$\frac{3}{2} = \frac{t}{4}$$

$$t = 6$$

$$\frac{s}{5} = \frac{4}{8}$$

$$s = 10$$

$$\frac{1}{v} = \frac{4}{8}$$

$$v = 2$$

$$\frac{1}{3} = \frac{3}{a}$$

$$a = 9$$

$$\frac{r}{6} = \frac{1}{3}$$

$$r = 2$$

$$\frac{10}{j} = \frac{5}{6}$$

$$j = 12$$

$$\frac{2}{1} = \frac{x}{2}$$

$$x = 4$$

$$\frac{b}{4} = \frac{3}{6}$$

$$b = 2$$

$$\frac{m}{1} = \frac{4}{2}$$

$$m = 2$$

$$\frac{1}{9} = \frac{9}{v}$$

$$v = 81$$

$$\frac{y}{3} = \frac{3}{1}$$

$$y = 9$$

$$\frac{1}{w} = \frac{3}{9}$$

$$w = 3$$

$$\frac{8}{4} = \frac{a}{2}$$

$$a = 4$$

$$\frac{d}{6} = \frac{6}{3}$$

$$d = 12$$

$$\frac{10}{y} = \frac{5}{2}$$

$$y = 4$$