

# Evaluating Expressions with Variables

Name: \_\_\_\_\_ Score: \_\_\_\_\_

Evaluate the expressions and determine the value of the variables.

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

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

$$\frac{2}{h} = \frac{3}{3}$$

$$\frac{6}{2} = \frac{z}{4}$$

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

$$\frac{2}{u} = \frac{4}{6}$$

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

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

$$\frac{10}{p} = \frac{5}{7}$$

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

$$\frac{b}{2} = \frac{12}{4}$$

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

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

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

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

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

$$\frac{d}{2} = \frac{5}{1}$$

$$\frac{1}{x} = \frac{2}{10}$$

# Answers

Evaluate the expressions and determine the value of the variables.

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

$$x = 9$$

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

$$f = 1$$

$$\frac{2}{h} = \frac{3}{3}$$

$$h = 2$$

$$\frac{6}{2} = \frac{z}{4}$$

$$z = 12$$

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

$$s = 1$$

$$\frac{2}{u} = \frac{4}{6}$$

$$u = 3$$

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

$$c = 6$$

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

$$r = 3$$

$$\frac{10}{p} = \frac{5}{7}$$

$$p = 14$$

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

$$x = 4$$

$$\frac{b}{2} = \frac{12}{4}$$

$$b = 6$$

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

$$m = 2$$

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

$$k = 27$$

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

$$y = 3$$

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

$$w = 9$$

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

$$a = 1$$

$$\frac{d}{2} = \frac{5}{1}$$

$$d = 10$$

$$\frac{1}{x} = \frac{2}{10}$$

$$x = 5$$