

Name: Class:

How to find equivalent fractions with denominators of 10 and 100

Find the values of the variables in the expressions below

a. $\frac{1}{10} = \frac{u}{100}$

b. $\frac{3}{a} = \frac{30}{100}$

c. $\frac{s}{10} = \frac{70}{100}$

d. $\frac{5}{10} = \frac{50}{a}$



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Find the values of the variables in the expressions below

a. $\frac{1}{10} = \frac{u}{100}$

To find u, let's cross multiply

$$\frac{1}{10} \times \frac{u}{100}$$

$$100 \times 1 = 10 \times u$$

$$100 = 10u$$

$$\frac{100}{10} = \frac{10u}{10}$$

$$10 = u$$

So, the missing value is 10.

b. $\frac{3}{a} = \frac{30}{100}$

To find a, let's cross multiply

$$\frac{3}{a} \times \frac{30}{100}$$

$$3 \times 100 = 30 \times a$$

$$300 = 30a$$

$$\frac{300}{30} = \frac{30a}{30}$$

$$10 = a$$

So, the missing value is 10.

c. $\frac{s}{10} = \frac{70}{100}$

To find s, let's cross multiply

$$\frac{s}{10} \times \frac{70}{100}$$

$$70 \times 10 = 100 \times s$$

$$700 = 100s$$

$$\frac{700}{100} = \frac{100s}{100}$$

$$7 = s$$

So, the missing value is 7.

d. $\frac{5}{10} = \frac{50}{a}$

To find a, let's cross multiply

$$\frac{5}{10} \times \frac{50}{a}$$

$$5 \times a = 50 \times 10$$

$$5a = 500$$

$$\frac{5a}{5} = \frac{500}{5}$$

$$100 = a$$

So, the missing value is 100.

