

Name: ..... Class: .....

Equivalent fractions: find the missing numerator or denominator



Complete the following equivalent fractions.

a.  $\frac{3}{4} = \frac{9}{\square}$

e.  $\frac{8}{9} = \frac{\square}{27}$

b.  $\frac{2}{\square} = \frac{6}{30}$

f.  $\frac{5}{\square} = \frac{25}{75}$

c.  $\frac{\square}{6} = \frac{6}{12}$

g.  $\frac{\square}{7} = \frac{35}{49}$

d.  $\frac{8}{\square} = \frac{32}{64}$

h.  $\frac{3}{10} = \frac{\square}{40}$



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a.  $\frac{3}{4} = \frac{9}{\square}$

METHOD 1

Let's use cross multiplication to find the missing number.

$$\frac{3}{4} = \frac{9}{?}$$

$$3 \times ? = 9 \times 4$$

$$3? = 36$$

$$? = \frac{36}{3}$$

$$? = \frac{12 \times 3}{1 \times 3} = 12$$

So, the missing number is 12.

Therefore, the complete expression is  $\frac{3}{4} = \frac{9}{12}$

METHOD 2

To find equivalent fractions, we either multiply or divide the numerator and the denominator by the same number.

Now, let's figure out how to get from 3 to 9 in our expression above.

You see that we multiply 3 by 3 to get 9.

So, let's also multiply 4 by 3 to get the denominator in the second fraction.

$$4 \times 3 = 12.$$

So, the missing number is 12.

Therefore,  $\frac{3}{4} = \frac{9}{12}$

b.  $\frac{2}{\square} = \frac{6}{30}$

Let's use cross multiplication to find the missing number.

$$\frac{2}{?} = \frac{6}{30}$$

$$2 \times 30 = 6 \times ?$$

$$60 = 6?$$

$$\frac{60}{6} = ?$$

$$\frac{10 \times 6}{1 \times 6} = ?$$

$$10 = ?$$

So, the complete expression is  $\frac{2}{10} = \frac{6}{30}$

c.  $\frac{3}{6} = \frac{6}{12}$

d.  $\frac{8}{16} = \frac{32}{64}$

e.  $\frac{8}{9} = \frac{24}{27}$

f.  $\frac{5}{15} = \frac{25}{75}$

g.  $\frac{5}{7} = \frac{35}{49}$

h.  $\frac{3}{10} = \frac{12}{40}$

