

Name: Class:

Patterns of equivalent fractions

Complete the following patterns of equivalent fractions.

Note: we can multiply or divide the numerator or denominator by the same number to find an equivalent fraction.

a. $\frac{1}{4} = \frac{3}{12} = \frac{9}{\square} = \frac{\square}{108} = \frac{405}{324}$

b. $\frac{36}{48} = \frac{\square}{24} = \frac{\square}{12}$



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a. $\frac{1}{4} = \frac{3}{12} = \frac{9}{\square} = \frac{\square}{108} = \frac{405}{324}$

Let's first of all figure out how the numerator and the denominator of the second fraction was gotten. You see that, the numerator and the denominator of the first fraction was multiplied by 3 to get the second fraction.

i.e. $\frac{1 \times 3}{4 \times 3} = \frac{3}{12}$

Now, let's multiply the numerator and the denominator of each fraction by 3 to find the missing numbers in the pattern.

Let's begin with $\frac{1}{4}$

$$\frac{1 \times 3}{4 \times 3} = \frac{3}{12}, \frac{3 \times 3}{12 \times 3} = \frac{9}{36}, \frac{9 \times 3}{36 \times 3} = \frac{27}{108}, \frac{27 \times 3}{108 \times 3} = \frac{405}{324}$$

Therefore, the complete pattern is $\frac{1}{4} = \frac{3}{12} = \frac{9}{36} = \frac{27}{108} = \frac{405}{324}$



b. $\frac{36}{48} = \frac{\square}{24} = \frac{\square}{12}$

Let's first of all figure out how the denominator of the second fraction was gotten.

You see that, the denominator of the first fraction was divided by 2 to get the second fraction.

i.e. $\frac{36 \div ?}{48 \div 2} = \frac{?}{24}$

Now, let's divide the numerator and the denominator of each fraction by 2 to complete the pattern.

$$\frac{36 \div 2}{48 \div 2} = \frac{18}{24}, \frac{18 \div 2}{24 \div 2} = \frac{9}{12}$$

Therefore, the complete pattern is $\frac{36}{48} = \frac{18}{24} = \frac{9}{12}$