



What are Equivalent Fractions?

FREE Worksheet - 2

Time: 20 minutes

(Detailed solutions at the end)

1. Write any equivalent fraction of $\frac{2}{4}$

Answer: _____

2. Find the missing number:

$$\frac{1}{6} = \frac{4}{?}$$

Answer: _____

3. Find the missing number:

$$\frac{?}{4} = \frac{9}{12}$$

Answer: _____



4. Write any equivalent fraction of $\frac{3}{4}$

Answer: _____

5. Find the missing number:

$$\frac{5}{?} = \frac{15}{21}$$

Answer: _____

6. Write any equivalent fraction of $\frac{4}{11}$

Answer: _____



SOLUTIONS

Problem 1

To get an equivalent fraction of $\frac{2}{4}$, we multiply its numerator and denominator by the same number.

Examples:

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

$$\frac{2 \times 3}{4 \times 3} = \frac{6}{12}$$

The first 8 equivalent fractions of $\frac{2}{4}$ by multiplying both 2 and 4 by 2, 3,9 are:

$$\frac{2}{4} = \frac{4}{8} = \frac{6}{12} = \frac{8}{16} = \frac{10}{20} = \frac{12}{24} = \frac{14}{28} = \frac{16}{32} = \frac{18}{36}$$

Problem 2

The numerator, 1, is multiplied by 4 to get 4.

So, we must also multiply the denominator, 6, by 4 to get an equivalent fraction.



$$\frac{1 \times 4}{6 \times 4} = \frac{4}{24}$$

So, the missing number is 24.

Problem 3

The denominator, 12, is divided by 3 to get 4.

So, we must also divide the numerator, 9, by 3 to get an equivalent fraction.

$$\frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$

So, the missing number is 3.

Problem 4

To get an equivalent fraction of $\frac{3}{4}$, we multiply its numerator and denominator by the same number.

Examples:

$$\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$$

$$\frac{3 \times 3}{4 \times 3} = \frac{9}{12}$$

The first 8 equivalent fractions of $\frac{3}{4}$ by multiplying both 3 and 4 by



2, 3,9 are:

$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{15}{20} = \frac{18}{24} = \frac{21}{28} = \frac{24}{32} = \frac{27}{36}$$

Problem 5

The numerator, 15, is divided by 3 to get 5.

So, we must also divide the denominator, 21, by 3 to get an equivalent fraction.

$$\frac{15 \div 3}{21 \div 3} = \frac{5}{7}$$

So, the missing number is 7.

Problem 6

To get an equivalent fraction of $\frac{4}{11}$, we multiply its numerator and denominator by the same number.

Examples:

$$\frac{4 \times 2}{11 \times 2} = \frac{8}{22}$$

$$\frac{4 \times 3}{11 \times 3} = \frac{12}{33}$$



The first 8 equivalent fractions of $\frac{4}{11}$ by multiplying both 4 and 5 by 2, 3,9 are:

$$\frac{4}{11} = \frac{8}{22} = \frac{12}{33} = \frac{16}{44} = \frac{20}{55} = \frac{24}{66} = \frac{28}{77} = \frac{32}{88} = \frac{36}{99}$$