



Generate Equivalent Fractions

FREE Worksheet - 3

Time: 15 minutes

(Detailed solutions at the end)

1. Write any equivalent fraction of $\frac{7}{8}$

Answer: _____

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

Answer: _____

3. Find the missing number:

$$\frac{8}{10} = \frac{48}{?}$$

Answer: _____



4. Find the missing number:

$$\frac{1}{?} = \frac{4}{28}$$

Answer: _____

5. Find the missing number:

$$\frac{?}{5} = \frac{12}{20}$$

Answer: _____

6. Find the missing number:

$$\frac{4}{5} = \frac{?}{30}$$



Answer: _____



SOLUTIONS

Problem 1

To get an equivalent fraction of $\frac{7}{8}$, we multiply its numerator and denominator by the same number.

Examples:

$$\frac{7 \times 2}{8 \times 2} = \frac{14}{16}$$

$$\frac{7 \times 3}{8 \times 3} = \frac{21}{24}$$

The first 8 equivalent fractions of $\frac{7}{8}$ by multiplying both 7 and 8 by 2, 3,9 are:

$$\frac{7}{8} = \frac{14}{16} = \frac{21}{24} = \frac{28}{32} = \frac{35}{40} = \frac{42}{48} = \frac{49}{56} = \frac{56}{64} = \frac{63}{72}$$



Problem 2

To get an equivalent fraction of $\frac{1}{2}$, we multiply its numerator and denominator by the same number.

Examples:

$$\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$$

$$\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$$

The first 8 equivalent fractions of $\frac{1}{2}$ by multiplying both 1 and 2 by 2, 3,9 are:

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12} = \frac{7}{14} = \frac{8}{16} = \frac{9}{18}$$

Problem 3

The numerator, 8, is multiplied by 6 to get 48.

So, we must also multiply the denominator, 10, by 6 to get an equivalent fraction.

$$\frac{8 \times 6}{10 \times 6} = \frac{48}{60}$$



So, the missing number is 60.

Problem 4

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

So, we must also divide the denominator, 28, by 4 to get an equivalent fraction.

$$\frac{4 \div 4}{28 \div 4} = \frac{1}{7}$$

So, the missing number is 7.

Problem 5

The denominator, 20, is divided by 4 to get 5.

So, we must also divide the numerator, 12, by 4 to get an equivalent fraction.

$$\frac{12 \div 4}{20 \div 4} = \frac{3}{5}$$

So, the missing number is 3.



Problem 6

The denominator, 5, is multiplied by 6 to get 30.

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

$$\frac{4 \times 6}{5 \times 6} = \frac{24}{30}$$

So, the missing number is 24.