



Simplifying Fractions

FREE Worksheet - 1

Time: 15 minutes

(Detailed solutions at the end)

1. Write the simplest equivalent fraction of:

$$\frac{9}{12}$$

Answer: _____

2. Find the missing number:

$$\frac{3}{15} = \frac{?}{5}$$

Answer: _____

3. Is $\frac{8}{12}$ the simplest fraction of $\frac{2}{3}$?

Answer: _____



4. The simplest equivalent fraction of $\frac{2}{4}$ is:

Answer: _____

5. Write $\frac{2}{8}$ in its simplest form.

Answer: _____

6. Find the missing number:

$$\frac{6}{12} = \frac{3}{?}$$

Answer: _____

7. The simplest form of $\frac{10}{15}$ is:

Answer: _____





SOLUTIONS

Problem 1

We use division to find a fraction in its simplest form.

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

The simplest equivalent fraction of $\frac{9}{12}$ is $\frac{3}{4}$.

Problem 2

The denominator is divided by 3 to simplify it.

So, we must also divide the numerator by 3 to get a simplified equivalent fraction.

$$\frac{3 \div 3}{15 \div 3} = \frac{1}{5}$$

So, the missing numerators is 1.



Problem 3

We use division to find a fraction in its simplest form.

$$\frac{8 \div 2}{12 \div 2} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

Yes, the simplest equivalent fraction of $\frac{8}{12}$ is $\frac{2}{3}$.

Problem 4

Both the numerator and the denominator can be divided by 2 to get the simplest form of the given fraction.

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

So, the missing number is 1.

Problem 5

Both the numerator and the denominator can be divided by 2 to get the simplest form of the given fraction.

$$\frac{2 \div 2}{8 \div 2} = \frac{1}{4}$$



Problem 6

We divide the numerator by 2 to get 3.

So, we must also divide the denominator by 2 to get an equivalent fraction.

$$\frac{6 \div 2}{12 \div 2} = \frac{3}{6}$$

So, the missing number is 6.

Problem 7

We use division to find a fraction in its simplest form.

$$\frac{4 \div 2}{12 \div 2} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$$

The simplest equivalent fraction of $\frac{4}{12}$ is $\frac{1}{3}$.