



## Simplifying Fractions

**FREE Worksheet - 5**

**Time: 15 minutes**

(Detailed solutions at the end)

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1. Find the missing number:

$$\frac{4}{8} = \frac{?}{4}$$

Answer: \_\_\_\_\_

2. Find the missing number:

$$\frac{8}{10} = \frac{4}{?}$$

Answer: \_\_\_\_\_

3. The simplest form of  $\frac{4}{20}$  is.

Answer: \_\_\_\_\_

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

Answer: \_\_\_\_\_

5. Write  $\frac{3}{12}$  in its simplest form.

Answer: \_\_\_\_\_

6. Is  $\frac{6}{12}$  the simplest form of  $\frac{2}{4}$ .

Answer: \_\_\_\_\_

7. Write  $\frac{4}{6}$  in its simplest form.



Answer: \_\_\_\_\_



## SOLUTIONS

### **Problem 1**

\_\_\_\_\_

The denominator is divided by 2 to simplify it.

So, we must also divide the numerator by 2 to get a simplified equivalent fraction.

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

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So, the missing numerator is 2.

### **Problem 2**

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We divide the numerator by 2 to get 4.

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

$$\frac{8 \div 2}{10 \div 2} = \frac{4}{5}$$

So, the missing number is 5.



**Problem 3**

\_\_\_\_\_

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

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

The simplest equivalent fraction of  $\frac{3}{6}$  is  $\frac{1}{2}$ .

**Problem 4**

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

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

\_\_\_\_\_

**Problem 5**

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Both the numerator and the denominator can be divided by 3 to get the simplest form of the given fraction.

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



**Problem 6**

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

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

The simplest equivalent fraction of  $\frac{4}{8}$  and  $\frac{2}{4}$  is  $\frac{1}{2}$ .

**Problem 7**

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

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

The simplest equivalent fraction of  $\frac{4}{6}$  is  $\frac{2}{3}$ .