Simplifying Fractions

FREE Worksheet - 4

Time: 15 minutes

(Detailed solutions at the end)

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1. Find the missing number:

$$\frac{5}{10} = \frac{?}{2}$$

Answer: _____

2. Find the missing number:

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

Answer: _____

3. Write $\frac{2}{10}$ in its simplest form.

Answer: _____

4. The simplest form of $\dfrac{12}{16}$ is:

Answer: _____

5. Is $\dfrac{4}{8}$ is the simplest fraction of $\dfrac{6}{12}$ is:

Answer: _____

6. Write the simplest equivalent fraction of $\dfrac{6}{8}$.

Answer: _____

7. Write $\dfrac{8}{16}$ in its simplest form.

Answer: _____

SOLUTIONS

Problem 1

The denominator is divided by 5 to simplify it.

So, we must also divide the numerator by 5 to get a simplified equivalent fraction.

$$\frac{5 \div 5}{10 \div 5} = \frac{1}{2}$$

So, the missing numerator is 1.

Problem 2

We divide the numerator by 2 to get 2.

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

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

So, the missing number is 4.

Problem 3

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

$$\frac{2 \div 2}{10 \div 2} = \frac{1}{5}$$

Problem 4

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 $\frac{1}{3}$.

Problem 5

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

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

The simplest equivalent fraction of $\frac{6}{12}$ and $\frac{3}{6}$ is $\frac{1}{2}$.

Problem 6

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

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

The simplest equivalent fraction of $\frac{6}{8}$ is $\frac{3}{4}$.

Problem 7

Both the numerator and the denominator can be divided by 8 to get the simplest form of the given fraction.

$$\frac{8 \div 8}{16 \div 8} = \frac{1}{2}$$