



Generate Equivalent Fractions

FREE Worksheet - 5

Time: 15 minutes

(Detailed solutions at the end)

1. Find the missing number:

$$\frac{9}{?} = \frac{72}{80}$$

Answer: _____

2. Find the missing number:

$$\frac{4}{8} = \frac{28}{?}$$

Answer: _____

3. Find the missing number:

$$\frac{3}{4} = \frac{?}{28}$$



Answer: _____

4. Find the missing number:

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

Answer: _____

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

Answer: _____

6. Write any equivalent fraction of $\frac{2}{6}$

Answer: _____



SOLUTIONS

Problem 1

The numerator, 72, is divided by 8 to get 9.

So, we must also divide the denominator, 80, by 8 to get an equivalent fraction.

$$\frac{72 \div 8}{80 \div 8} = \frac{9}{10}$$

So, the missing number is 10.

Problem 2

The numerator, 4, is multiplied by 7 to get 28.

So, we must also multiply the denominator, 8, by 7 to get an equivalent fraction.

$$\frac{4 \times 7}{8 \times 7} = \frac{28}{56}$$

So, the missing number is 56.



Problem 3

The denominator, 4, is multiplied by 6 to get 24.

So, we must also multiply the numerator, 3, by 6 to get an equivalent fraction.

$$\frac{3 \times 6}{4 \times 6} = \frac{18}{24}$$

So, the missing number is 18.

Problem 4

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

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

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

So, the missing number is 1.



Problem 5

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 6

To get an equivalent fraction of $\frac{2}{6}$, we multiply its numerator and denominator by the same number.

Examples:

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

$$\frac{2 \times 3}{6 \times 3} = \frac{6}{18}$$

The first 8 equivalent fractions of $\frac{2}{6}$ by multiplying both 2 and 6 by

2, 3,9 are:

$$\frac{2}{6} = \frac{4}{12} = \frac{6}{18} = \frac{8}{24} = \frac{10}{30} = \frac{12}{36} = \frac{14}{42} = \frac{16}{48} = \frac{18}{54}$$