

Find Equivalent Fractions and Fractions in Simplest Form

Equivalent Fractions

Equivalent fractions name the same part. To find an equivalent fraction, multiply the numerator and denominator by the same number.

$$\frac{1 \times 2}{3 \times 2} = \frac{2}{6} \quad \frac{1 \times 3}{3 \times 3} = \frac{3}{9} \quad \frac{1 \times 4}{3 \times 4} = \frac{4}{12}$$

So, $\frac{1}{3}$, $\frac{2}{6}$, $\frac{3}{9}$, and $\frac{4}{12}$ are equivalent fractions.

Simplest Form

When a fraction is in simplest form, its numerator and denominator have only 1 as a common factor.

Show $\frac{6}{8}$ in simplest form.

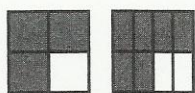
- Find the greatest common factor of the numerator and denominator.
factors of 6: 1, 2, 3, 6
factors of 8: 1, 2, 4
The greatest common factor is 2.
- Divide the numerator and denominator by the greatest common factor.

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

So, the simplest form of $\frac{6}{8}$ is $\frac{3}{4}$.

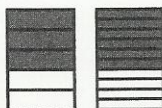
Complete to find equivalent fractions.

1.



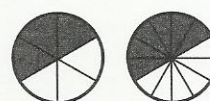
$$\frac{3}{4} = \frac{\square}{8}$$

2.



$$\frac{3}{5} = \frac{\square}{10}$$

3.



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

4.

$$\frac{3}{4} = \frac{3 \times \square}{4 \times \square} = \frac{\square}{\square}$$

5.

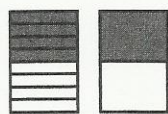
$$\frac{3}{5} = \frac{3 \times \square}{5 \times \square} = \frac{\square}{\square}$$

6.

$$\frac{3}{6} = \frac{3 \times \square}{6 \times \square} = \frac{\square}{\square}$$

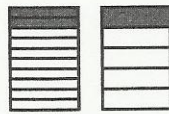
Write each fraction in simplest form.

7.



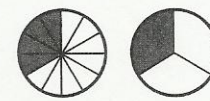
$$\frac{4}{8} = \underline{\hspace{2cm}}$$

8.



$$\frac{2}{10} = \underline{\hspace{2cm}}$$

9.



$$\frac{4}{12} = \underline{\hspace{2cm}}$$