

# Simplify Fractions



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

## Step 1

Write in simplest form:  $\frac{16}{40}$

Find the GCF of the numerator and the denominator.

Factors of 16: 1, 2, 4, **8**, 16

Factors of 40: 1, 2, 4, 5, **8**, 10, 20, 40

GCF: 8

The only common factor of 2 and 5 is 1, so  $\frac{2}{5}$  is in simplest form.

## Step 2

Divide the numerator and the denominator by their GCF.

$$\frac{16}{40} = \frac{16 \div 8}{40 \div 8} = \frac{2}{5}$$

Check that  $\frac{2}{5}$  is in simplest form.

Factors of 2: 1, 2

Factors of 5: 1, 5

Write each fraction in simplest form.

1.  $\frac{6}{10}$

Factors of 6: \_\_\_\_\_

Factors of 10: \_\_\_\_\_

GCF: \_\_\_\_\_

$$\frac{6}{10} = \frac{6 \div}{10 \div} = \frac{---}{---}$$

3.  $\frac{12}{30}$

Factors of 12: \_\_\_\_\_

Factors of 30: \_\_\_\_\_

GCF: \_\_\_\_\_

$$\frac{12}{30} = \frac{12 \div}{30 \div} = \frac{---}{---}$$

5.  $\frac{6}{18}$  \_\_\_\_\_

6.  $\frac{15}{40}$  \_\_\_\_\_

2.  $\frac{9}{36}$

Factors of 9: \_\_\_\_\_

Factors of 36: \_\_\_\_\_

GCF: \_\_\_\_\_

$$\frac{9}{36} = \frac{9 \div}{36 \div} = \frac{---}{---}$$

4.  $\frac{20}{25}$

Factors of 20: \_\_\_\_\_

Factors of 25: \_\_\_\_\_

GCF: \_\_\_\_\_

$$\frac{20}{25} = \frac{20 \div}{25 \div} = \frac{---}{---}$$

7.  $\frac{8}{30}$  \_\_\_\_\_

8.  $\frac{24}{27}$  \_\_\_\_\_

9.  $\frac{16}{28}$  \_\_\_\_\_

10.  $\frac{30}{48}$  \_\_\_\_\_

11.  $\frac{20}{24}$  \_\_\_\_\_

12.  $\frac{21}{28}$  \_\_\_\_\_