

Name

Date

Simplifying Fractions

When **simplifying** or **reducing** fractions, divide the numerator and denominator by the same number.

Example: Reduce the fraction $\frac{4}{8}$ to its lowest terms.

Step 1. Write out the factors of both the numerator and denominator.

Factors of 4 (1, 2, 4)

Factors of 8 (1, 2, 4, 8)

Step 2. Find the greatest or highest common factor. HCF/GCF = 4

Step 3. Divide both the numerator and denominator by the HCF/GCF.

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

Reduce the following fractions to its lowest term.

● $\frac{2}{4} = \text{—}$

● $\frac{2}{6} = \text{—}$

● $\frac{2}{10} = \text{—}$

● $\frac{3}{6} = \text{—}$

● $\frac{3}{9} = \text{—}$

$$\bullet \frac{6}{9} = \text{—}$$

$$\bullet \frac{3}{15} = \text{—}$$

$$\bullet \frac{5}{25} = \text{—}$$

$$\bullet \frac{2}{8} = \text{—}$$

$$\bullet \frac{4}{28} = \text{—}$$

$$\bullet \frac{12}{16} = \text{—}$$

$$\bullet \frac{16}{20} = \text{—}$$

$$\bullet \frac{20}{32} = \text{—}$$

$$\bullet \frac{30}{45} = \text{—}$$

$$\bullet \frac{15}{20} = \text{—}$$

$$\bullet \frac{6}{36} = \text{—}$$

$$\bullet \frac{12}{18} = \text{—}$$

$$\bullet \frac{18}{24} = \text{---}$$