

## Key Concept and Vocabulary

Divide the numerator and the denominator by a common factor.

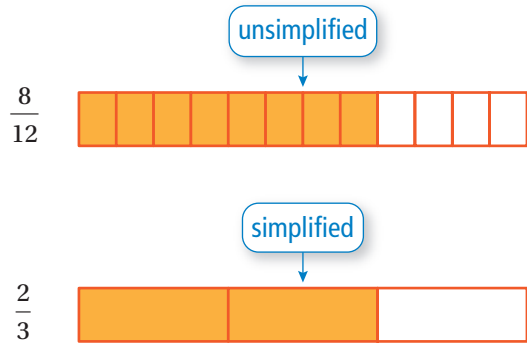
$$\frac{8}{12} = \frac{8 \div 4}{12 \div 4} = \frac{2}{3}$$

**Simplest form:** The numerator and denominator have no common factors other than 1.

Simplifying fractions



## Visual Model



## Skill Examples

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

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

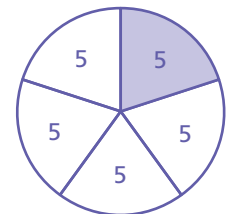
3.  $\frac{15}{20} = \frac{15 \div 5}{20 \div 5} = \frac{3}{4}$

4.  $\frac{80}{100} = \frac{80 \div 20}{100 \div 20} = \frac{4}{5}$

## Application Example

5. Five of the 25 students in your class have a social media account. Write this fraction in simplest form.

$$\frac{5}{25} = \frac{5 \div 5}{25 \div 5} = \frac{1}{5}$$



- One-fifth of the students in your class have a social media account.

## PRACTICE MAKES PURR-FECT®



Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Write the fraction in simplest form.

6.  $\frac{16}{18} =$  \_\_\_\_\_

7.  $\frac{10}{12} =$  \_\_\_\_\_

8.  $\frac{6}{8} =$  \_\_\_\_\_

9.  $\frac{15}{45} =$  \_\_\_\_\_

10.  $\frac{12}{40} =$  \_\_\_\_\_

11.  $\frac{14}{21} =$  \_\_\_\_\_

12.  $\frac{6}{2} =$  \_\_\_\_\_

13.  $\frac{20}{50} =$  \_\_\_\_\_

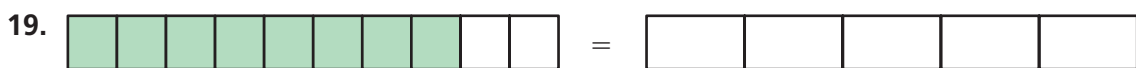
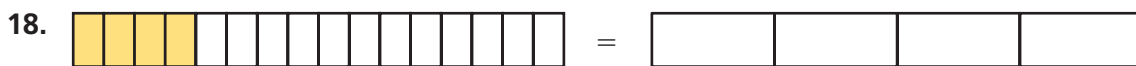
14.  $\frac{24}{16} =$  \_\_\_\_\_

15.  $\frac{20}{15} =$  \_\_\_\_\_

16.  $\frac{55}{60} =$  \_\_\_\_\_

17.  $\frac{21}{35} =$  \_\_\_\_\_

Shade the model so that the fraction is simplified.



20. **SOCIAL MEDIA** Eight of the 24 students in your class have a social media account. Write this fraction in simplest form. \_\_\_\_\_

21. **SIMPLIFYING** Write five different fractions that each simplify to  $\frac{2}{5}$ .  
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