

REVIEW: Simplifying Fractions

Name _____

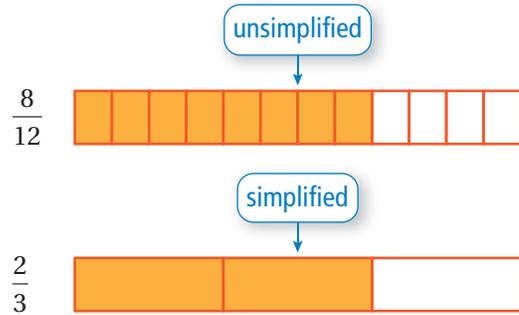
Key Concept and Vocabulary

$$\frac{8}{12} = \frac{2 \cdot \cancel{4}}{3 \cdot \cancel{4}} = \frac{2}{3}$$

Divide numerator and denominator by common factor.



Visual Model



Skill Examples

1. $\frac{2}{4} = \frac{1 \cdot \cancel{2}}{2 \cdot \cancel{2}} = \frac{1}{2}$

2. $\frac{3}{6} = \frac{1 \cdot \cancel{3}}{2 \cdot \cancel{3}} = \frac{1}{2}$

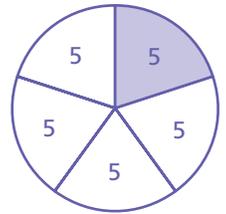
3. $\frac{15}{20} = \frac{3 \cdot \cancel{5}}{4 \cdot \cancel{5}} = \frac{3}{4}$

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

Application Example

5. Five of the 25 students in your class have a Facebook account. Write this fraction in simplified form.

$$\frac{5}{25} = \frac{1 \cdot \cancel{5}}{5 \cdot \cancel{5}} = \frac{1}{5}$$



- One-fifth of your class has a Facebook account.

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Check your answers at BigIdeasMath.com.

Simplify the fraction.

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. $\frac{20}{50} =$ _____

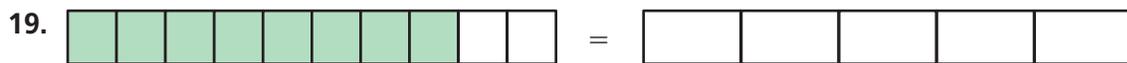
14. $\frac{12}{30} =$ _____

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

16. $\frac{75}{85} =$ _____

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

Shade the model so that the fraction is simplified.



20. **FACEBOOK** Eight of the 24 students in your class have a Facebook account. Write this fraction in simplified form. _____

21. **SIMPLIFYING** Write five different fractions that each simplify to two-fifths.
