

MY Homework**Lesson 3****Simplest Form****Homework Helper**Need help? connectED.mcgraw-hill.com

Amelia rode $\frac{8}{24}$ mile on the bike trail. Express in simplest form the fraction of the distance that Amelia rode on the bike trail.

Divide the numerator and denominator by the same common factor. Continue dividing until the fraction is in simplest form.

$$\frac{8}{24} = \frac{8 \div 2}{24 \div 2}$$

Divide 8 and 24 by the common factor 2.

$$= \frac{4}{12}$$

Simplify.

$$= \frac{4 \div 4}{12 \div 4}$$

Divide the numerator and denominator by the common factor 4.

$$= \frac{1}{3}$$

Simplify.

Since 1 and 3 have no common factors other than 1, stop dividing.

So, $\frac{8}{24}$ written in simplest form is $\frac{1}{3}$.

Practice

Write each fraction in simplest form. If the fraction is already in simplest form, write *simplified*.


1. $\frac{8}{9}$ _____

2. $\frac{9}{18}$ _____

3. $\frac{26}{32}$ _____



Problem Solving

4. **Mathematical PRACTICE**  **Find the Error** Nicholas wrote the steps below to simplify the fraction $\frac{20}{30}$. Find his error and correct it.

$$\frac{20}{30} = \frac{20 \div 5}{30 \div 6} = \frac{4}{5}$$

5. Mr. Rolloson's class had a board game tournament. Out of the 24 games played, Timeka won 10 games. Write $\frac{10}{24}$ in simplest form.

My Work!

We are the winners!



Vocabulary Check



6. Fill in the blank with the correct term or number to complete the sentence.

A fraction is written in simplest form when the GCF of the numerator and the denominator is _____.

Test Practice

7. Gil's aunt cut his birthday cake into 32 equal pieces. Eighteen pieces were eaten at his birthday party. What fraction of the cake was left?

- (A) $\frac{7}{16}$ (C) $\frac{7}{12}$
 (B) $\frac{9}{16}$ (D) $\frac{9}{14}$