Find the quotient. Write fractions in simplest form.

4. 
$$-2.4 \div 3.2$$

5. 
$$-6 \div (-1.1)$$

**5.** 
$$-6 \div (-1.1)$$
 **6.**  $-\frac{6}{5} \div \left(-\frac{1}{2}\right)$ 

7. 
$$-\frac{1}{3} \div 2\frac{2}{3}$$

$$-\frac{1}{8}$$

You can represent division involving fractions using complex fractions.

A complex fraction has at least one fraction in the numerator, denominator, or both.

## **Evaluating a Complex Fraction** Example 3

Evaluate 
$$\frac{-\frac{10}{9}}{-\frac{1}{6}+1}.$$

Write the denominator as a single fraction. Then rewrite the complex fraction as

HELP A CLASSMATE

Help a classmate understand why  $-\frac{1}{6}$  can

be written as  $\frac{-1}{6}$ 

The denomi	nator can	be written as $-\frac{1}{6} + 1$	1	6	5
$-\frac{10}{2}$	$-\frac{10}{2}$	6 ' 1	6	6	$=\frac{5}{6}$

$$\frac{-\frac{10}{9}}{-\frac{1}{6}+1} = \frac{-\frac{10}{9}}{\frac{5}{6}}$$

$$\frac{9}{\frac{1}{6}+1} = \frac{9}{\frac{5}{6}}$$

$$=-\frac{10}{9} \div \frac{5}{6}$$

$$=-\frac{10}{9}\cdot\frac{6}{5}$$

$$=\frac{-\frac{2}{100 \cdot \cancel{6}}^2}{30 \cdot \cancel{5}_1}$$

$$=-\frac{4}{3}$$

Rewrite the denominator as 
$$\frac{5}{6}$$
.

Multiply by the reciprocal of 
$$\frac{5}{6}$$
.

## Try It

Evaluate the expression. Write fractions in simplest form.

8. 
$$\frac{-\frac{1}{2}}{6}$$



9. 
$$\frac{-2\frac{1}{2}}{-\frac{3}{4}}$$

10. 
$$\frac{-1\frac{2}{3} \cdot \left(-\frac{3}{5}\right)}{\left(\frac{1}{3}\right)^2}$$

$$\frac{1}{\frac{1}{9}} = \frac{9}{9}$$

## In-Class Practice







11. WRITING Explain how to determine whether a quotient of two rational numbers is positive or negative.

EVALUATING AN EXPRESSION Evaluate the expression. Write fractions in simplest form.

12. 
$$-108 \div 12$$

**13.** 
$$-6.8 \div (-3.6)$$

14. 
$$-\frac{2}{9}$$