Name: _____

1-9 Additional Practice

Scan for Multimedia

Leveled Practice **In 1–2, fill in the boxes to find the quotient.**

1. Find the quotient of $\frac{5}{6} \div \left(-\frac{13}{7}\right)$.

$\frac{5}{6} \div \left(-\frac{13}{7}\right) = \frac{5}{6} \cdot \square$

$= -\frac{\square}{\square}$

2. Simplify the complex fraction $\frac{\frac{7}{10}}{-\frac{2}{5}}$.

Rewrite the complex fraction:

$\square \div \left(-\frac{2}{5}\right)$

Write the division as multiplication:

$\square \cdot \square$

The product is $\square$.

3. Use the division expression $\frac{5}{8} \div \frac{1}{16}$.

a. Write an equivalent multiplication expression.

b. Reasoning How many times can $\frac{5}{8}$ be divided by $\frac{1}{16}$? How did you decide? MP.2

4. Use the division expression $-\frac{10}{13} \div 4\frac{1}{3}$.

a. Write the multiplication expression equivalent to $-\frac{10}{13} \div 4\frac{1}{3}$.

b. Find the product.

5. Simplify the expression.

$-3\frac{1}{6} \div \left(-1\frac{4}{9}\right)$

6. Find the quotient.

$\frac{4}{15} \div -3.4$

7. C.J. says the quotient of $-\frac{3}{4} \div \frac{1}{4}$ is $-\frac{1}{3}$.

a. What is the correct quotient?

b. What mistake did C.J. likely make?

Ⓐ He multiplied the reciprocals of both fractions.

Ⓑ He added $-\frac{3}{4}$ and $\frac{1}{4}$.

Ⓒ He multiplied $-\frac{3}{4}$ by $\frac{1}{4}$.

Ⓓ He multiplied using the reciprocal of $-\frac{3}{4}$.

8. Use the complex fraction $\frac{-\frac{8}{11}}{-\frac{3}{5}}$.

a. Write an equivalent multiplication expression.

b. Will the quotient of the complex fraction be positive or negative? Explain.

9. Higher Order Thinking Explain why when dividing fractions with the same denominator, you can find the quotient by dividing the numerators. Support your answer with an example using one or more mixed numbers.

Assessment Practice

10. After a heavy rainfall, the water level of a river swelled to the edge of its banks. Any more rain would cause a flood. After a few hours, the river went down $\frac{1}{5}$ inch. Then another storm developed. An additional $\frac{1}{4}$ inch of rainfall was recorded, and the level of the river rose by $\frac{1}{20}$ of the amount of rain that fell during the second storm.

PART A

Use the expression $-\frac{1}{5} + \frac{\frac{1}{4}}{\frac{20}{1}}$ to find the change in inches of the water level of the river.

PART B

Did the second storm cause a flood? Explain.