

LESSON
1-6

Dividing Rational Numbers

Practice and Problem Solving: C

Write each quotient two other ways by moving the negative sign.

1. $\frac{-1}{5} =$ _____ 2. $-\frac{7}{30} =$ _____ 3. $\frac{1}{-2} =$ _____
 = _____ = _____ = _____

Use $>$, $<$, or $=$ to compare the quotients. Show the quotients.

4. $(4 \times \frac{1}{3}) \div \frac{2}{5} \bigcirc 4 \times (\frac{1}{3} \div \frac{2}{5})$ 5. $(4.5 \div 0.5) \div 3 \bigcirc 4.5 \div (0.5 \div 3)$

6. $(6 \div -\frac{1}{5}) \times -\frac{4}{3} \bigcirc 6 \div (-\frac{1}{5} \times -\frac{4}{3})$ 7. $5.5(-3 \times 7.5) \bigcirc 7.5(-3 \times 5.5)$

Use decimals to rewrite each quotient. Then, solve.

8. $\frac{(\frac{2}{5})}{(-\frac{5}{8})}$ 9. $\frac{(-5\frac{2}{5})}{(-\frac{5}{16})}$ 10. $\frac{(\frac{1}{4})}{(\frac{3}{5})}$
 _____ _____ _____

Write each quotient as a decimal and as a fraction. Show your work.

11. $\frac{(1 + \frac{1}{2} + \frac{1}{4})}{(1 - \frac{1}{2} - \frac{1}{4})}$ _____

12. $\frac{(1 + \frac{1}{3} + \frac{1}{6})}{(1 - \frac{1}{3} - \frac{1}{6})}$ _____

13. $\frac{(1 + \frac{1}{4} + \frac{1}{8})}{(1 - \frac{1}{4} - \frac{1}{8})}$ _____

14. If the 4s in question 13 are replaced with 5s, and the 8s are replaced with 10s, how will the quotient compare to the other three quotients? Explain.

