

Lesson 21 ~ Dividing Rational Numbers

Name _____ Period _____ Date _____

Find each quotient. Write in simplest form.

1. $\frac{3}{5} \div \left(-\frac{1}{5}\right)$

2. $-\frac{1}{4} \div \left(-\frac{7}{8}\right)$

3. $7 \div \left(-\frac{1}{3}\right)$

4. $5\frac{1}{6} \div \frac{1}{3}$

5. $-5 \div (-3\frac{1}{3})$

6. $-\frac{1}{2} \div (4\frac{3}{8})$

7. Carol feeds her bird the same amount of food every day. Over the past 7 days, her bag of bird food has decreased by $1\frac{3}{4}$ cups.

a. Which value in this situation should be represented by a negative number? _____
Why?

b. Write a division expression to find the number that represents the change in the amount of food in the bag each day.

c. Find the value of your expression from **part b**.

Find each quotient.

8. $-30 \div (-0.6)$

9. $29.4 \div (-2.1)$

10. $-0.8 \div 3.2$

11. $113.4 \div 5.4$

12. Hannah received a gift card for the local coffee shop. She buys the same drink each day. The value on her card has decreased by \$33.30 after 9 trips to the coffee shop.

a. Which value in this situation should be represented by a negative number? _____
Why?

b. Write a division expression to determine the number that represents the total change in value on her card per coffee.

c. Find the value of your expression from **part b**.