

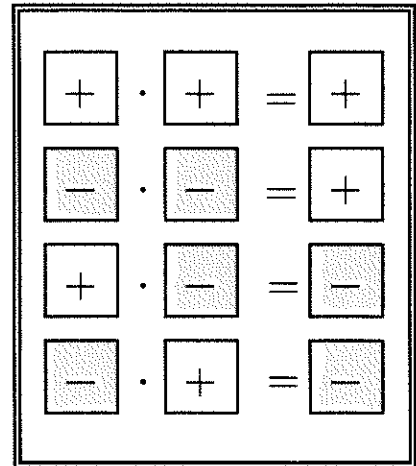
Lesson 20T ~ Multiplying Rational Numbers

Name _____ Period _____ Date _____

Find each product. Write in simplest form.

1. $-\frac{1}{4}\left(-\frac{2}{3}\right) \rightarrow \left(\frac{-1}{4}\right)\left(\frac{-2}{3}\right)$

Rewrite with the negatives in the numerator.



2. $-\frac{3}{5} \cdot \frac{1}{4}$

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

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

5. $\frac{3}{8}\left(-\frac{5}{7}\right)$

6. $5\frac{1}{2}(1\frac{3}{4})$

Find each product.

7. $4.1(-0.3)$

8. $-8.1(-5)$

9. $-1.4(0.6)$

10. $10.5(1.2)$

11. Alden measured the water level in his pool each day. Every day, the water level went down $1\frac{1}{2}$ inches. He measured the pool for 5 straight days.

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

b. Write a multiplication expression to determine the rational number that represents the total change in the pool after 5 days.

$$\square \cdot \square =$$

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

12. Alden decided to refill his pool. He put a hose in and left the water running for 3.5 minutes. Each minute, the level of the pool raised 0.8 inches. How much did the water level of the pool rise after Alden was finished?