

Rational Numbers

Study Guide

Add or subtract. Write fractions in simplest form.

1. $5.73 - (-3.56)$

2. $-\frac{5}{3} + 2\frac{1}{3}$

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

4. $5\frac{3}{8} - (-4\frac{2}{5})$

Multiply. Write fractions in simplest form.

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

6. $0.15 \times (-0.6)$

7. $(-\frac{8}{9})(\frac{3}{4})$

8. $-2.76 \cdot 0.086$

Divide. Write fractions in simplest form.

9. $-4.2 \div 12$

10. $-\frac{2}{7} \div (-\frac{8}{21})$

11. $-5.56 \div (-.02)$

Draw a model to determine which number is located the same distance on a number line from -4 as 6 is?

Create a t-chart and place (4) words in each that are associated with positive and negative numbers. For example: negative = withdraw.

A company's stock begins the week with a price of \$43.86 per share. The price changes by \$2.30 each day for 3 days. Then the price changes by -\$1.14 each day for 2 days. On the last day, the price changes by -\$4.56. What is the price per share of the company's stock after those five days.

Give an example of the property "additive inverse".

The temperature at midnight was -2° C. By 8 am, it had risen 1.5° . By noon, it had risen another 2.7° . Then a storm blew in, causing it to drop 4.7° by 6 pm. What was the temperature at 6 pm?

Change $\frac{5}{250}$ to a decimal. Is it terminating or repeating? What rules does this satisfy?

The elevation of Mount McKinley is meters above sea level. The elevation of the surface of the Dead Sea is -424.3 meters. What is the distance from the surface of the Dead Sea to the top of Mount McKinley?