

Warm-Up...

September 24

1. Jane borrows \$1043.00 from her parents. She pays back 74.50 a week.

A. Write a mathematical sentence to show how many weeks will it take to pay back her parents?

$$\frac{1043}{74.50} = 14 \text{ weeks}$$

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

$$\frac{-11}{5} \times \frac{7}{2}$$

$$\frac{-77}{10} = -7\frac{7}{10}$$

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

$$\frac{-11}{3} \div \frac{-9}{4} \leftarrow \text{flip}$$

$$\downarrow$$

$$\frac{-11}{3} \times \frac{-4}{9}$$

$$\frac{44}{27} = 1\frac{17}{27}$$

**Any Homework
Questions???**

$$\begin{array}{c}
 \text{add} \quad \text{add} \\
 \nearrow \quad \nearrow \\
 - \frac{1}{6} - \frac{1}{2} + \frac{3}{8} \\
 \nwarrow \quad \nwarrow \\
 \times \quad \times
 \end{array}$$

$$\begin{array}{c}
 x^4 \quad x^4 \quad x^4 \\
 - \frac{2}{6} - \frac{1}{2} + \frac{11}{8} \\
 x^4 \quad x^4 \quad x^4
 \end{array}$$

$$\boxed{\frac{-28}{24} - \frac{12}{24} + \frac{33}{24}}$$

$$\boxed{\frac{-7}{24}}$$

$$5\frac{7}{10} \div -2\frac{1}{6} \times 6$$

$$\frac{57}{10} \div -\frac{13}{6} \times \frac{6}{1}$$

← flip

$$\frac{57}{10} \times -\frac{6}{13} \times \frac{6}{1}$$

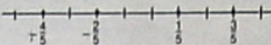
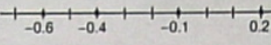
$$\frac{-2052}{130} = -15\frac{102}{130}$$

$$-15\frac{51}{65}$$

PRACTICE Worksheet

1-12 omit #10

1. Write the opposite of the rational numbers shown.

a.  b. 

2. Express in the form $\frac{a}{b}$.

a. -4 b. 4.7 c. -0.25 d. $-3\frac{1}{2}$

3. Express in lowest terms with a positive denominator.

a. $\frac{10}{-100}$ b. $\frac{-25}{15}$ c. $\frac{14}{-16}$ d. $\frac{-42}{-32}$

4. Copy and complete the equivalent rational numbers.

a. $\frac{2}{3} = \frac{\square}{6} = \frac{8}{\square} = \frac{\square}{30} = \frac{10}{\square}$
 b. $-\frac{8}{12} = -\frac{4}{\square} = -\frac{\square}{3} = -\frac{16}{\square} = -\frac{\square}{36}$

5. Copy and use $>$, $<$, or $=$ to make a true statement.

a. $\frac{5}{6} \bigcirc \frac{3}{4}$ b. $-\frac{1}{2} \bigcirc \frac{4}{8}$ c. $\frac{4}{-10} \bigcirc \frac{-10}{4}$
 d. $-\frac{2}{3} \bigcirc \frac{4}{-6}$ e. $-\frac{4}{10} \bigcirc \frac{2}{-5}$ f. $-1.3 \bigcirc -\frac{5}{2}$

6. Draw a number line and arrange the numbers from least to greatest.

a. 3.4, -3.4, 4.3, -0.3, -4.3
 b. $\frac{7}{4}$, $-\frac{7}{4}$, $2\frac{3}{4}$, $-\frac{1}{4}$, 0, $-1\frac{1}{4}$
 c. 0.4, $-\frac{2}{10}$, $\frac{1}{5}$, -0.4, $-\frac{3}{5}$

7. When a freezer is first plugged in, the inside temperature changes at the rate of -1.75°C/h . At this rate, find the temperature change after 4 h.

8. Will the result be positive or negative?

a. $\frac{-2}{3} \times (\frac{6}{-7})$ b. $\frac{-3}{8} + (\frac{-11}{12})$
 c. $-5\frac{1}{3} \times \frac{4}{5}$ d. $\frac{4}{-9} \times (\frac{-21}{10}) \times (\frac{-3}{10})$
 e. $2\frac{1}{2} + (-3\frac{1}{3}) \times 2\frac{2}{3}$ f. $-3\frac{1}{4} \times 1\frac{3}{5} + (-1\frac{1}{2})$

9. Multiply or divide.

a. $\frac{2}{3} \times 15$ b. $\frac{2}{3} \times (-15)$ c. $\frac{-2}{3} \times (-15)$
 d. $\frac{-2}{3} \times 15$ e. $\frac{-3}{7} \div (\frac{-15}{7})$ f. $\frac{7}{12} \div (\frac{-7}{9})$
 g. $\frac{-3}{4} \div (\frac{-5}{12})$ h. $1\frac{1}{2} \div (-2)$ i. $4\frac{2}{3} \div 3\frac{1}{2}$

10. The value of a stock changed by $-\$3\frac{3}{8}$ each day until the total change was $-\$4\frac{1}{2}$. During how many days did the stock drop at the rate of $-\$3\frac{3}{8}$ /d?

11. Find the result.

a. $\frac{5}{8} \times (-\frac{1}{4}) + (\frac{-4}{8})$ b. $-\frac{4}{3} \times (\frac{1}{-3}) + (\frac{-8}{9})$
 c. $\frac{-10}{9} + \frac{6}{5} \times (\frac{-7}{3})$ d. $-5\frac{1}{3} + \frac{8}{3} + (\frac{-4}{2})$

12. Add or subtract.

a. $-\frac{4}{5} - (\frac{2}{3})$ b. $\frac{2}{3} - \frac{3}{4}$ c. $-\frac{2}{3} + \frac{1}{6}$
 d. $-\frac{3}{10} - \frac{2}{5}$ e. $-\frac{5}{6} - \frac{5}{12}$ f. $1\frac{1}{2} + (\frac{-1}{12})$