Center #1 – Write the decimal as a fraction or mixed number in simplest form

1) -0.6 2) 0.35 3) -5.8

Write the rational number as a decimal

4) $\frac{11}{5}$ 5) $-\frac{5}{8}$ 6) $-1\frac{8}{15}$

Center #2 – Add or subtract. Write the fractions in simplest form.

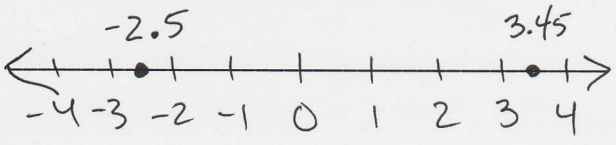
1) $-\frac{7}{2}+\frac{5}{4}$ 2) $-4\frac{5}{9}+\frac{8}{9}$ 3) $1.6+(-2.76)$

4) $-\frac{5}{12}-\frac{3}{10}$ 5) $3.8-(-7.45)$ 6) $3\frac{3}{4}-\frac{7}{8}$

Center #3 – Evaluate the expression if x = $\frac{2}{3}$ and y = $-\frac{5}{2}$

1) $x+y$ 2) $2x-y$ 3) $-x+|2y|$

Find the distance between the two numbers on the number line.



Center #4 – Multiply or divide. Write the fractions in simplest form.

1) $\frac{8}{15} \times -\frac{2}{3}$

2) $-\frac{2}{3} \bullet 2\frac{1}{2} \bullet -3$

3) $5.12(-9.3)$

4) $\frac{9}{10} \div \left(-1\frac{1}{5}\right)$

5) $-0.65 \div 0.4$

6) $-2.7 \div \left(-\frac{1}{4}\right)^2$

Center #5

John's kite is 155 feet up in the air. Your kite is $\frac{3}{5}$ as high as John's. How much higher is John's kite than yours?

A bottle holds 16.9 fluid ounces of water. You take a gulp from a new bottle and now it's $\frac{4}{5}$ full. How many fluid ounces did you drink?

Center #6

The change in scoring for the last 6 games is 4.7, -3.2, -6.1, -10.9, 1.5, and -0.1. What is the mean change?

How many $\frac{2}{5}$ liter cups can you fully fill with $5\frac{7}{10}$ liters of soda?

Math 6 Acc Ch 12 p548 #1-7 odd, 9-22 all

Center #1 – Write the decimal as a fraction or mixed number in simplest form

1) -0.6 $-\frac{6}{10} = -\frac{3}{5}$

2) 0.35 $\frac{35}{100} = \frac{7}{20}$

3) -5.8 $-5\frac{8}{10} = -5\frac{4}{5}$

Write the rational number as a decimal

4) $\frac{11}{5}$ $2\frac{1}{5} = 2.2$

5) $-\frac{5}{8}$

$$\begin{array}{r} -0.625 \\ 8\overline{)5.000} \\ -48 \\ \hline 20 \\ -16 \\ \hline 40 \end{array}$$

6) $-1\frac{8}{15}$ $-1.5\overline{3}$

$$\begin{array}{r} .53333\ldots \\ 15\overline{)8.0} \\ -75 \\ \hline 50 \\ -45 \\ \hline 50 \end{array}$$

Center #2 – Add or subtract. Write the fractions in simplest form.

1) $-\frac{7}{2}+\frac{5}{4}$ $-\frac{14}{4}+\frac{5}{4}=-\frac{9}{4}$ $=-2\frac{1}{4}$

2) $-4\frac{5}{9}+\frac{8}{9}$ $-3\frac{14}{9}+\frac{8}{9}=-3\frac{6}{9}=-3\frac{2}{3}$ OR $-\frac{41}{9}+\frac{8}{9}=-\frac{33}{9}=-3\frac{6}{9}=-3\frac{2}{3}$

3) $1.6+(-2.76)$

$$\begin{array}{r} 2.76 \\ -1.6\,\dot{0} \\ \hline -1.16 \end{array}$$

4) $-\frac{5}{12}-\frac{3}{10}$ $-\frac{25}{60}+-\frac{18}{60}=-\frac{43}{60}$

5) $3.8-(-7.45)$

$$\begin{array}{r} {\scriptstyle 1}\,3.8 \\ +7.45 \\ \hline 11.25 \end{array}$$

6) $3\frac{3}{4}-\frac{7}{8}$ $3\frac{6}{8}-\frac{7}{8}$ $2\frac{14}{8}-\frac{7}{8}=2\frac{7}{8}$

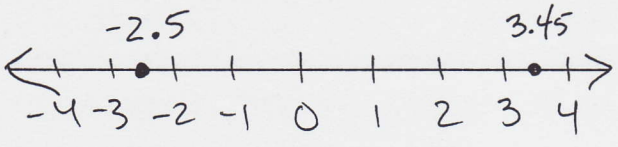
Center #3 – Evaluate the expression if x = $\frac{2}{3}$ and y = $-\frac{5}{2}$

1) $x+y$ $\frac{2}{3}+-\frac{5}{2}$ $\frac{4}{6}+-\frac{15}{6}$ $-\frac{11}{6}=-1\frac{5}{6}$

2) $2x-y$ $2\left(\frac{2}{3}\right)-\left(-\frac{5}{2}\right)$ $\frac{4}{3}+\frac{5}{2}$ $\frac{8}{6}+\frac{15}{6}=\frac{23}{6}$ $=3\frac{5}{6}$

3) $-x+|2y|$ $-\frac{2}{3}+\left|8\cdot-\frac{5}{8}\right|$ $-\frac{2}{3}+5=4\frac{1}{3}$

Find the distance between the two numbers on the number line.



$3.45-(-2.5) \Rightarrow$

$$\begin{array}{r} 3.45 \\ +2.5 \\ \hline 5.95 \end{array}$$

Center #4 – Multiply or divide. Write the fractions in simplest form.

1) $\frac{8}{15} \times -\frac{2}{3}$

$-\frac{16}{45}$

2) $-\frac{2}{3} \bullet 2\frac{1}{2} \bullet -3$

$-\frac{2}{3} \cdot \frac{5}{2}$

$\frac{5}{3} \cdot \frac{3}{1} = 5$

3) $5.12(-9.3)$

-47.616

4) $\frac{9}{10} \div \left(-1\frac{1}{5}\right)$

$\frac{9}{10} \div \frac{6}{5}$

$\frac{3}{2}\frac{9}{10} \cdot \frac{5}{6} = \frac{3}{4}$

5) $-0.65 \div 0.4$

$0.4\overline{)0.65}$

$4\overline{)6.5}$ -1.625

6) $-2.7 \div \left(-\frac{1}{4}\right)^2$

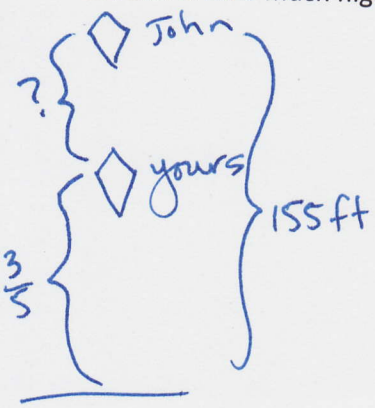
$-2.7 \div \frac{1}{16}$

$-2\frac{7}{10} \cdot \frac{16}{1}$

$-\frac{27}{5}\frac{}{10} \cdot \frac{16}{1}^{8} = \frac{-216}{5} = -43\frac{1}{5}$

Center #5

John's kite is 155 feet up in the air. Your kite is $\frac{3}{5}$ as high as John's. How much higher is John's kite than yours?



$\frac{2}{5} \times 155^{31} = 62$ ft higher

A bottle holds 16.9 fluid ounces of water. You take a gulp from a new bottle and now it's $\frac{4}{5}$ full. How many fluid ounces did you drink?

you drank $\frac{1}{5}$ of 16.9

$\frac{1}{5} \times 16\frac{9}{10}$

$\frac{1}{5} \times \frac{169}{10} = \frac{169}{50} = 3\frac{19}{50}$ fl. oz.

Center #6

The change in scoring for the last 6 games is 4.7, -3.2, -6.1, -10.9, 1.5, and -0.1. What is the mean change?

$4.7 + -3.2 + -6.1 + -10.9 + 1.5 + -0.1$

$-14.1 \div 6 = -2.35$ pts

How many $\frac{2}{5}$ liter cups can you fully fill with $5\frac{7}{10}$ liters of soda?

$5\frac{7}{10} \div \frac{2}{5}$

$\frac{57}{2}\frac{}{10} \cdot \frac{8}{2} = \frac{57}{4} = 14\frac{1}{4}$

14 cups