

October 12, 2011

Warm-Up:

Spts

$$\begin{array}{r} 4 \div 7.9 \\ -7.9 \\ +4.0 \\ \hline -3.9 \end{array}$$

$$\begin{array}{r} 38.17 + (-52.5) \\ \overset{4}{-} \overset{4}{52.50} \\ +38.17 \\ \hline -14.33 \end{array}$$

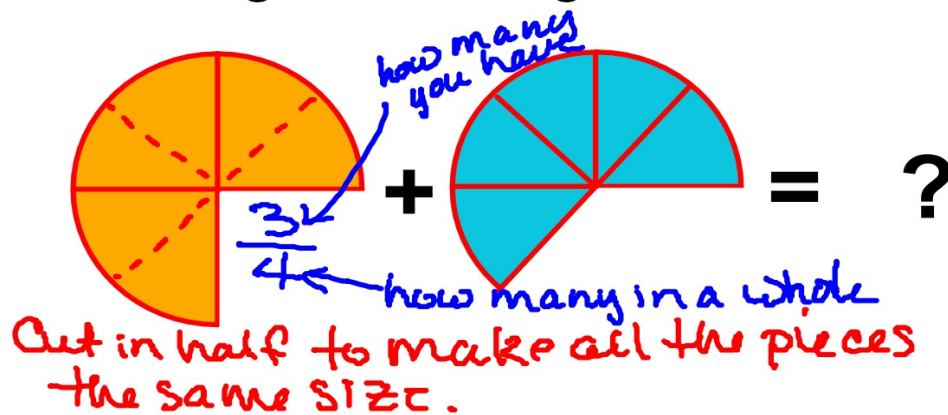
$$\begin{array}{r} -21.6 \div 30 \\ -30.0 \\ -21.6 \\ \hline -51.6 \end{array}$$

$$\begin{array}{r} -5.12 \div (-12.4) \\ 12.40 \\ -5.12 \\ \hline 7.28 \end{array}$$

**Get out your homework:**

**Questions???**

## 10/11 - Adding/Subtracting Fractions



What problems do you have trying to add these?

The pieces were not the same size.

What needs to be done to make it easier?

Make the pieces the same size — cut them in half

Compute:

$$\frac{1}{2} + \frac{2}{3}$$

$$\begin{array}{r} \frac{1 \cdot 3}{2 \cdot 3} \frac{3}{6} \\ + \frac{2 \cdot 2}{3 \cdot 2} \frac{4}{6} \\ \hline \frac{7}{6} \\ = 1 \frac{1}{6} \end{array}$$

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

$$\begin{array}{r} 3\frac{3 \cdot 5}{4 \cdot 5} \frac{15}{20} \\ - 1\frac{2 \cdot 4}{5 \cdot 4} \frac{8}{20} \\ \hline 2\frac{7}{20} \end{array}$$

$$5\frac{1}{3} + 7\frac{2}{5}$$

$$\begin{array}{r} 5\frac{1 \cdot 5}{3 \cdot 5} \frac{5}{15} \\ + 7\frac{2 \cdot 3}{5 \cdot 3} \frac{6}{15} \\ \hline 12\frac{11}{15} \end{array}$$

### Remember:

*Same sign*

*Add and*

*Keep the sign*

*Different signs*

*Subtract and*

*Keep the sign of  
the biggest #*

Compute each:

$$\begin{array}{r} \frac{-1}{3} + \frac{3}{4} \\ \frac{3 \cdot 3}{4 \cdot 3} \quad \frac{9}{12} \\ + \quad \frac{-1 \cdot 4}{3 \cdot 4} \quad \frac{-4}{12} \\ \hline \frac{5}{12} \end{array}$$

$$\begin{array}{r} 3\frac{1}{6} + -5\frac{3}{5} \\ -5\frac{3 \cdot 4}{5 \cdot 4} \quad \frac{18}{20} \\ + 3\frac{1 \cdot 5}{6 \cdot 5} \quad \frac{5}{30} \\ \hline -2\frac{13}{30} \end{array}$$

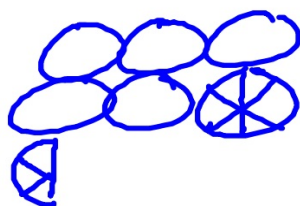
$$\begin{array}{r} -6\frac{3}{7} + 4\frac{1}{4} \\ -6\frac{3 \cdot 4}{7 \cdot 4} \quad \frac{12}{28} \\ + 4\frac{1 \cdot 7}{4 \cdot 7} \quad \frac{7}{28} \\ \hline -2\frac{5}{28} \end{array}$$

**Compute:**

$$-3\frac{2}{3} + -2\frac{5}{6}$$

$$\begin{array}{r} -3\frac{2}{3} \quad \frac{4}{6} \\ -2\frac{5}{6} \quad \frac{5}{6} \\ \hline \end{array}$$

$$-5\frac{9}{6} = -6\frac{3}{6} = -6\frac{1}{2}$$



**Remember:**

Same sign  
Add and  
Keep the sign

Different signs  
Subtract and  
Keep the sign of  
the biggest #

$$-4\frac{1}{2} + 6\frac{1}{3}$$

$$\begin{array}{r} 5 \quad 6\frac{1}{3} \quad \frac{2}{6} \\ -4\frac{1}{2} \quad \frac{3}{6} \\ \hline 1\frac{5}{6} \end{array}$$



$$\frac{1}{4} + 5\frac{2}{3}$$

$$\begin{array}{r} -5\frac{2}{3} \quad \frac{8}{12} \\ + \frac{1}{4} \quad \frac{3}{12} \\ \hline -5\frac{5}{12} \end{array}$$

Need any more??

$$\begin{array}{r} 2\cancel{3}\frac{5}{4} \\ - 1\frac{3}{4} \\ \hline 1\frac{2}{4} = 1\frac{1}{2} \end{array}$$

$$\begin{array}{r} \overset{10}{- \cancel{11}\frac{3}{8}} \quad + \\ + 4\frac{7}{8} \\ \hline -6\frac{4}{8} = -6\frac{1}{2} \end{array}$$

## Homework:

***Green** worksheet  
pizzazz 30/31*

*Due tomorrow*