

OCTOBER 17, 2011

**WARM-UP:**

$$\frac{-4}{9} \cdot \frac{3}{20}$$

$$\frac{-5}{6} \cdot \frac{-4}{15}$$

$$\frac{-2}{3} \div 6$$

$$\frac{2}{9} \div \frac{-5}{8}$$

**4TH PERIOD, GET OUT HOMEWORK**

**- LAVENDAR WORKSHEET...**


**OTHER CLASSES, IT'S DUE TOMORROW**

## 10/17 - Multiplying/Dividing Mixed Numbers


What is always the first step?

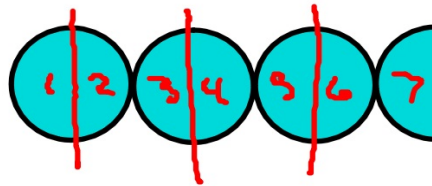
Mixed numbers need to be changed to improper fractions!

Add


$$3\frac{1}{2} = \frac{7}{2}$$

Multiply





Change these to improper fractions:

$$2\frac{1}{3}$$
$$= \frac{7}{3}$$

$$4\frac{2}{5}$$
$$= \frac{22}{5}$$

$$-8\frac{3}{4}$$
$$= -\frac{35}{4}$$

$$-5\frac{7}{8}$$
$$= -\frac{47}{8}$$

Multiply. Write answers in simplest form.

Use **BATMAN** rules!

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

$$= \frac{\cancel{2}^1}{2} \cdot \frac{7}{\cancel{3}_1}$$

$$= \frac{7}{2} = 3\frac{1}{2}$$

$$4\frac{2}{3} \cdot 1\frac{2}{7}$$

$$= \frac{\cancel{2}^2}{\cancel{3}_1} \cdot \frac{9}{\cancel{7}_3}$$

$$= \frac{6}{1} = 6$$

$$-3\frac{5}{6} \cdot 4\frac{4}{5}$$

$$= -\frac{\cancel{23}^1}{\cancel{6}_2} \cdot \frac{\cancel{24}^4}{5}$$

$$= -\frac{92}{5} = -18\frac{2}{5}$$

$$\begin{array}{r} 23 \\ 9 \overline{) 182} \\ \underline{90} \phantom{2} \\ 92 \phantom{2} \\ \underline{90} \phantom{2} \\ 2 \phantom{2} \end{array}$$

$$-2\frac{5}{8} \cdot -1\frac{5}{9}$$

$$= \frac{\cancel{21}^1}{\cancel{8}_4} \cdot \frac{\cancel{14}^7}{\cancel{9}_3}$$

$$= \frac{49}{12} = 4\frac{1}{12}$$

**Use BATMAN  
rules!**

*Divide. Write answers in simplest form.*

$$2\frac{1}{4} \div 2\frac{2}{5}$$
$$\frac{9}{4} \div \frac{12}{5}$$
$$= \frac{9}{4} \cdot \frac{5}{12} = \frac{15}{16}$$

$$1\frac{2}{3} \div 3\frac{1}{3}$$
$$\frac{5}{3} \div \frac{10}{3}$$
$$= \frac{5}{3} \cdot \frac{3}{10} = \frac{1}{2}$$

$$-2\frac{2}{3} \div 2\frac{2}{5}$$
$$-\frac{8}{3} \div \frac{12}{5}$$
$$= -\frac{8}{3} \cdot \frac{5}{12} = -\frac{10}{9}$$

$$-3\frac{3}{4} \div -10$$
$$-\frac{15}{4} \div -\frac{10}{1}$$
$$= -\frac{15}{4} \cdot -\frac{1}{10} = \frac{3}{8}$$

**HOMEWORK:**

**WORKSHEET**

WS 2.3B

**DUE:** tomorrow  
(Tuesday)