

# November 3, 2014<sup>5<sup>th</sup></sup> <sup>6<sup>th</sup></sup>

Starter:

8 pts

6, 7, 8 → 2

4, 5 → 1



Find each quotient.

$$\begin{array}{r} 69 \\ 9 \overline{)621} \\ \underline{-54} \phantom{0} \\ 81 \\ \underline{-81} \\ 0 \end{array}$$

$$\begin{array}{r} 34 \\ 12 \overline{)408} \\ \underline{-36} \phantom{0} \\ 48 \\ \underline{-48} \\ 0 \end{array}$$

$$3. \quad -360 \div 15$$

$$\begin{array}{r} -24 \\ 15 \overline{)360} \\ \underline{-30} \phantom{0} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

## 11/3 Dividing Rational Numbers - Decimals

### **DIVIDING DECIMALS by** **WHOLE NUMBERS:**

How do you set up the problem?

bottom) top

What do you do with the decimal in the answer?

Bring it straight up

$$\begin{array}{r} 13.41 \\ \hline -9 \\ \hline 9 \overline{) 13.41} \\ \underline{-9} \\ 44 \\ \underline{-36} \\ 81 \\ \underline{-81} \\ 0 \end{array}$$

**DIVIDING DECIMALS by**  
**DECIMALS:**

$$\begin{array}{r} 47.22 \\ \hline -0.3 \end{array}$$

How do you set up the problem?

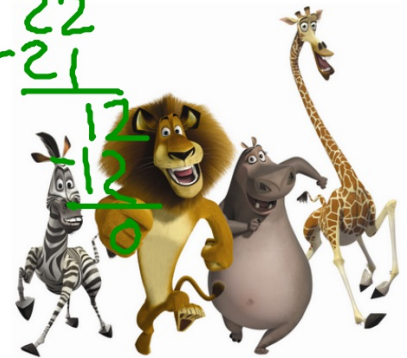
bottom ) top

What do you do with the decimal before you work the problem?

Madagascar Rule  
Move it - move it!

Needs to be a whole #

$$\begin{array}{r} -157.4 \\ \hline -0.3 \overline{)47.22} \\ \underline{-3} \phantom{0} \\ 17 \\ \underline{-15} \\ 22 \\ \underline{-21} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$



Discuss these 3 questions with your partners...

What should you do if you run out of numbers before you are done?

$$\begin{array}{r}
 4.125 \\
 -0.8 \\
 \hline
 5.15625 \\
 0.8 \overline{) 4.125000} \\
 \underline{40} \phantom{0} \\
 12 \phantom{00} \\
 \underline{-8} \phantom{0} \\
 45 \phantom{0} \\
 \underline{40} \phantom{0} \\
 50 \phantom{0} \\
 \underline{-48} \phantom{0} \\
 20 \phantom{0} \\
 \underline{-16} \phantom{0} \\
 40
 \end{array}$$

*Annex 0's*

What do you do if the answer repeats?

$$\begin{array}{r}
 -0.56 \\
 -1.5 \\
 \hline
 .3733 \\
 1.5 \overline{) 0.56000} \\
 \underline{-45} \phantom{00} \\
 110 \phantom{0} \\
 \underline{-105} \phantom{0} \\
 50 \phantom{0} \\
 \underline{-45} \phantom{0} \\
 58 \phantom{0} \\
 \underline{57} \phantom{0} \\
 10
 \end{array}$$

*Put a bar over the part that repeats*

What do you do if you can't get to the end?

$$\begin{array}{r}
 -7.5 \\
 4.9 \\
 \hline
 1.510204 \\
 4.9 \overline{) 7.500000} \\
 \underline{-49} \phantom{0000} \\
 260 \phantom{00} \\
 \underline{-255} \phantom{00} \\
 50 \phantom{00} \\
 \underline{-49} \phantom{00} \\
 100 \phantom{00} \\
 \underline{-98} \phantom{00} \\
 200 \phantom{00} \\
 \underline{-196} \phantom{00} \\
 4
 \end{array}$$

*Look out the directions on 3 places.*

**Find these quotients:**

$$\begin{array}{r} -5.22 \\ -6 \\ \hline 6 \overline{) 5 \overset{.}{2} 2} \\ \underline{48} \\ 42 \\ \underline{-42} \\ 0 \end{array}$$

$$\begin{array}{r} -630 \div 0.15 \\ -4200. \\ 0.15 \overline{) 630.00} \\ \underline{60} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

$$\begin{array}{r} -0.0371 \div (-0.7) \\ 0.053 \\ -0.7 \overline{) -0.0371} \\ \underline{-35} \\ 21 \\ \underline{-21} \\ 0 \end{array}$$

# Homework

White WS 9

**Due** Wednesday