

# November 3, 2014<sup>4th</sup>

Starter: 8 pts

Find each quotient.

$$\begin{array}{r} 69 \\ 9 \overline{) 621} \\ \underline{-54} \phantom{0} \\ 001 \phantom{0} \\ \underline{-000} \\ 0 \end{array}$$

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

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

6, 7, 8 → 2  
4, 5 → 1



## 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

$$\begin{array}{r} 13.41 \\ \hline -9 \\ \hline -1.49 \\ \hline -9 \overline{) 13.41} \\ \underline{-9} \phantom{.41} \\ 44 \\ \underline{-36} \phantom{1} \\ 81 \\ \underline{-81} \\ 0 \end{array}$$

*(Handwritten notes: "334" circled in black, "334" written in black, and "1" written in blue above the decimal point in the dividend.)*

## DIVIDING DECIMALS by DECIMALS:


How do you set up the problem?

bottom) top

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

"move it - move it"  
Madagascar Rule

move this decimal to the end

$$\begin{array}{r} 47.22 \\ - 0.3 \\ \hline - 157.4 \\ \hline - 0.3 \overline{) 47.22} \\ \underline{-3} \phantom{00} \\ 17 \phantom{00} \\ \underline{-15} \phantom{00} \\ 22 \phantom{00} \\ \underline{20} \phantom{00} \\ 20 \phantom{00} \\ \underline{-12} \phantom{00} \\ 8 \phantom{00} \end{array}$$


Discuss these 3 questions with your partners...

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

$$\begin{array}{r}
 4.125 \\
 -0.8 \\
 \hline
 5.15625 \\
 -0.8 \overline{)4.125000} \\
 \underline{-40} \phantom{00} \\
 12 \phantom{00} \\
 \underline{-8} \phantom{00} \\
 45 \phantom{00} \\
 \underline{-40} \phantom{00} \\
 50 \phantom{00} \\
 \underline{-40} \phantom{00} \\
 100 \phantom{00} \\
 \underline{-80} \phantom{00} \\
 20 \phantom{00} \\
 \underline{-20} \phantom{00} \\
 0
 \end{array}$$

Annex 0's

What do you do if the answer repeats?

$$\begin{array}{r}
 -0.56 \\
 -1.5 \\
 \hline
 0.37333 \\
 -1.5 \overline{) -0.560000} \\
 \underline{-45} \phantom{00} \\
 110 \phantom{00} \\
 \underline{-105} \phantom{00} \\
 50 \phantom{00} \\
 \underline{-45} \phantom{00} \\
 50 \phantom{00} \\
 \underline{-45} \phantom{00} \\
 50 \phantom{00} \\
 \underline{-45} \phantom{00} \\
 5
 \end{array}$$

0.37333

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

$$\begin{array}{r}
 -7.5 \\
 4.9 \\
 \hline
 1.5306 \\
 4.9 \overline{)7.50000} \\
 \underline{-49} \phantom{00} \\
 260 \phantom{00} \\
 \underline{-245} \phantom{00} \\
 150 \phantom{00} \\
 \underline{-147} \phantom{00} \\
 300 \phantom{00} \\
 \underline{-294} \phantom{00} \\
 60
 \end{array}$$

Look at directions on go 3 places

**Find these quotients:**

$$\frac{-5.22}{-6}$$

$$\begin{array}{r} \text{6} \overline{) 5.22} \\ \underline{48} \phantom{0} \\ 42 \\ \underline{42} \\ 0 \end{array}$$

$$-630 \div 0.15$$

$$\begin{array}{r} \text{0.15} \overline{) 63000} \\ \underline{60} \phantom{00} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$-0.0371 \div (-0.7)$$

$$\begin{array}{r} \text{0.053} \\ \text{0.7} \overline{) 0.0371} \\ \underline{35} \phantom{0} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

# Homework

Buff WS9

**Due** Wednesday