

Math 20 - Thurs, 2/23

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Questions on 3.5, 3.7, 4.1 and 4.2

Quiz 6 on 3.5, 3.7, 4.1 and 4.2

Finish 4.3, 4.4, 4.5  
mult      div      frac  $\rightarrow$  decimal

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Midterm 2 on Tuesday, 2/28 (3-4.4)

- All recovery work due
- no calculator/no times table
- review packet also posted in D2L
- chapter reviews in webwork

# Questions

$$\left( \frac{9.5}{4.5} - \frac{7}{20} \right) - 4 \left( \frac{7}{20} - \frac{9.5}{4.5} \right)$$

$$= \left( \frac{45}{20} - \frac{7}{20} \right) - \frac{4}{1} \left( \frac{7}{20} - \frac{45}{20} \right)$$

$$= \frac{38}{20} - \frac{4}{1} \left( -\frac{38}{20} \right)$$

keep the denominator of 20

$$= \frac{38}{20} + \frac{152}{20}$$

$$\frac{38}{20} - \left( -\frac{152}{20} \right)$$

$$= \frac{190}{20}$$

$$= \frac{19}{2} \text{ or } 9\frac{1}{2}$$

$$\left( \frac{1}{2} \right)^2 - \frac{4}{9} \div \frac{3}{7}$$

flip the 2nd + change to .

$$= \frac{1}{2} \cdot \frac{1}{2} - \frac{4}{9} \cdot \frac{7}{3}$$

$$= \frac{1 \cdot 27}{4 \cdot 27} - \frac{28 \cdot 4}{27 \cdot 4}$$

$$= \frac{27}{108} - \frac{112}{108}$$

$$= \frac{-85}{108}$$

$$\begin{array}{r} \cancel{108} \\ \cancel{112} \\ -27 \\ \hline 85 \end{array}$$

$$\begin{array}{r} \cancel{108} \\ \cancel{112} \\ -27 \\ \hline 85 \end{array}$$

## Section 4.3 Multiplying

$$6 \times 1 = 6$$

$$6 \times 10 = 60$$

$$6 \times 100 = 600$$

$$0.137 \times 10 = 0.137$$

$$0.137 \times 0.1 = 0.0137$$

$$0.137 \times 100 = 1.37$$

$$\begin{array}{r} \phantom{+} 3 \\ 3.28 \\ \times 1.4 \\ \hline 1312 \\ + 3280 \\ \hline 4.592 \\ 4.592 \end{array}$$

It's given that  $41.58 = 2378$

$$.41(-.058)$$

$$- .02378$$

$$\begin{array}{r} .058 \\ \times .41 \\ \hline - .02378 \end{array}$$

# Section 4.4 Dividing Decimals

$$432\cancel{0} \div 10 = 432$$

$$43\cancel{20} \div 100 = 43.20 \text{ or } 43.2$$

$$4320\cancel{0} \div .1 = 43200$$

$$\begin{array}{r} 43200. \\ \sqrt{43200.} \\ \underline{-4} \\ 03 \end{array}$$

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$$\begin{array}{r} 1.38 \\ 3 \overline{) 4.14} \\ \underline{-3} \phantom{0} \\ 11 \\ \underline{-9} \phantom{0} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

move the decimal straight up

$$15 \overline{) \phantom{0000}}$$

$$\begin{array}{r}
 230606 \\
 \hline
 15 \overline{) 34.60000} \\
 \underline{-30} \phantom{00000} \\
 46 \phantom{00000} \\
 \underline{-45} \phantom{00000} \\
 100 \phantom{0000} \\
 \underline{-90} \phantom{0000} \\
 100
 \end{array}$$

$$\begin{array}{r}
 2.3060606\dots \\
 \hline
 15 \overline{) 34.60000} \\
 \underline{30} \phantom{00000} \\
 46 \phantom{00000} \\
 \underline{-45} \phantom{00000} \\
 10 \phantom{00000} \\
 0 \phantom{00000} \\
 \hline
 100 \\
 90 \\
 \hline
 10
 \end{array}$$

$2.\overline{306}$  "overbar"  
 repeating decimal

terminating decimal

$$\begin{array}{r}
 277.4 \\
 \hline
 3 \overline{) 832.2} \\
 \underline{-6} \phantom{000} \\
 23 \phantom{000} \\
 \underline{-21} \phantom{000} \\
 22 \phantom{000} \\
 \underline{-21} \phantom{000} \\
 12 \phantom{000} \\
 12 \phantom{000} \\
 \underline{-12} \phantom{000} \\
 0
 \end{array}$$

Move the decimals  
 to the right  
 to get a whole  
 number on the  
 outside.