

Warm-Up

Sept. 26, 2016

**Chapter 3 Test will be Friday, September 30!!!**

$$\begin{array}{l}
 \text{a) } \underline{6 \times 3 + 3 \times 7} \\
 6 \times 4 - 11 \\
 \underline{18 + 3 \times 7} \\
 24 - 11 \\
 \underline{18 + 21} \\
 13 \\
 \frac{39}{13} = \textcircled{3}
 \end{array}$$

$$\begin{array}{l}
 \text{b) } \underline{64 \div 4 + (2 \times 4)} \\
 8 \times 5 + 6 - (2 \times 19) \\
 \underline{64 \div 4 + 8} \\
 8 \times 5 + 6 - 38 \\
 \underline{16 + 8} \\
 40 + 6 - 38 \\
 \underline{24} \\
 46 - 38 \\
 \frac{24}{8} = \textcircled{3}
 \end{array}$$

## Orders of Operations with decimals...

BEDMAS

-5.2  
-6.8

A.  $(-0.8) + 1.2 \div (-0.3) \times 1.5$

$$-0.8 + -4 \times 1.5$$

$$-0.8 + -6$$

$$\textcircled{-6.8}$$

-37

B.  $(-3.2) - 0.9 \div [0.7 - (-1.2)]$

$$-3.2 - 0.9 \div 1.9$$

$$-3.2 - 0.47$$

$$-3.67$$

$$-3\frac{2}{5} \times -1\frac{5}{6} + \frac{3}{10} \quad \text{BEDMAS}$$

$$-\frac{17}{5} \times -\frac{11}{6} + \frac{3}{10}$$

$$\frac{187}{30} + \frac{3 \times 3}{10 \times 3}$$

$$\frac{187}{30} + \frac{9}{30}$$

$$\frac{196}{30}$$

$$6\frac{16}{30}$$

$$6\frac{8}{15}$$

$$\left(2\frac{1}{4} \times -3\frac{1}{2}\right) + \frac{1}{5} - \frac{2}{3}$$

$$\left(\frac{9}{4} \times -\frac{7}{2}\right) + \frac{1}{5} - \frac{2}{3}$$

$$\frac{-63 \times 5}{8 \times 5} + \frac{1 \times 8}{5 \times 8} - \frac{2}{3}$$

$$\frac{-315}{40} + \frac{8}{40} - \frac{2}{3}$$

$$\frac{\overset{\times 3}{-307}}{\overset{\times 3}{40}} - \frac{\overset{\times 40}{2}}{\overset{\times 40}{3}}$$

$$\frac{-921}{120} - \frac{80}{120}$$

$$\frac{-1001}{120} = -8\frac{41}{120}$$

$$1\frac{5}{8} - \left(-2\frac{3}{4} + 2\right) \left(-2\frac{3}{4} + \frac{2}{3}\right)$$

$$\frac{13}{8} - \left(\frac{-11}{4} + \frac{2^{x4}}{1^{x4}}\right) \left(\frac{-11}{+34} + \frac{2^{x4}}{3^{x4}}\right)$$

$$\frac{13}{8} - \left(\frac{-11}{4} + \frac{8}{4}\right) \left(\frac{-33}{12} + \frac{8}{12}\right)$$

$$\frac{13}{8} - \frac{-3}{4} \times \frac{-25}{12}$$

$$\begin{matrix} \times 6 \\ \times 6 \end{matrix} \frac{13}{8} - \frac{75}{48}$$

$$\frac{78}{48} - \frac{75}{48} = \frac{3}{48} = \frac{1}{16}$$

$$\left( \frac{\overset{\times 3}{3}}{\underset{\times 3}{7}} + \frac{11}{21} \right) \div \frac{5}{12} \times \frac{-2}{3}$$

$$\left( \frac{9}{21} + \frac{11}{21} \right) \div \frac{5}{12} \times \frac{-2}{3}$$

$$\frac{20}{21} \div \frac{5}{12} \times \frac{-2}{3} \quad \leftarrow \text{flip}$$

$$\frac{20}{21} \times \frac{12}{5} \times \frac{-2}{3}$$

$$\frac{240}{105} \times \frac{-2}{3}$$

$$-\frac{480}{315} = -\frac{65}{315} \quad \left( -\frac{11}{21} \right)$$

3 a) 3.58  
b) -16.42  
c) 73

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# 3 a, b, c

#14. a, b, c  $\rightarrow \frac{15}{8} = 1\frac{7}{8}$   
 $\swarrow$   $\downarrow$   
 $\frac{1}{4}$   $-\frac{5}{4} = -1\frac{1}{4}$

