

September 21, 2015

Warm-Up

**Convert the following to a mixed number:**

A.  $\frac{-11}{2} = -5\frac{1}{2}$       B.  $\frac{22}{-3} = -7\frac{1}{3}$

**Convert the following to improper fractions:**

A.  $-2\frac{2}{3}$       B.  $-4\frac{1}{5}$

$-2\frac{2}{3} = -\frac{8}{3}$

$-4\frac{1}{5} = -\frac{21}{5}$

Order the following from greatest to least:

a.  $\overbrace{0.122}^A$ ,  $\overbrace{0.012}^B$ ,  $\overbrace{0.122}^A$ ,  $\overbrace{0.01200}^A$ ,  $\overbrace{0.01202}^B$

$$0.122, 0.120, 0.01202, 0.0120$$

b.  $-\frac{3}{4}$ ,  $-\frac{1}{2}$ ,  $-\frac{2}{8}$ ,  $-\frac{8}{3}$ ,  $-\frac{6}{4}$

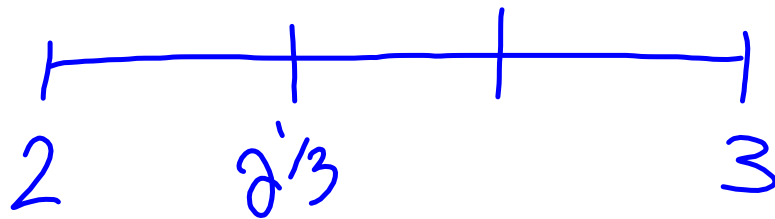
$$-0.75, -0.5, -0.25, -2.6, -1.5$$

$$-\frac{2}{8}, -\frac{1}{2}, -\frac{3}{4}, -\frac{6}{4}, \frac{8}{3}$$

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Draw a number line to show  $2\frac{1}{3}$

*increase*  
→



Add the following:

A.  $1\frac{2}{3} + -4\frac{5}{8}$

$$\begin{array}{l}
 \text{add} \\
 \uparrow \\
 1\frac{2}{3} + -4\frac{5}{8} \\
 \times \\
 \times 8 \\
 \frac{5}{3} + \frac{-37 \times 3}{8 \times 3} \\
 \times 8 \\
 \frac{40}{24} + \frac{-111}{24} \\
 \hline
 \frac{-71}{24} = -2\frac{23}{24}
 \end{array}$$

B.  $-2\frac{1}{4} + -3\frac{3}{8}$

$$\begin{array}{l}
 B. -2\frac{1}{4} + -3\frac{3}{8} \\
 \times 2 \\
 \frac{-9}{4} + \frac{-27}{8} \\
 \times 2 \\
 \boxed{\frac{-18}{8} + \frac{-27}{8}} \\
 \hline
 \frac{-45}{8} = -5\frac{5}{8}
 \end{array}$$

Subtract the following:

A.  $-5\frac{1}{4} - 3\frac{3}{8}$

$$\begin{array}{r}
 \text{add} \\
 -5\frac{1}{4} - 3\frac{3}{8} \\
 \times \\
 \begin{array}{r}
 \times 2 \\
 -\frac{21}{4} - \frac{27}{8} \\
 \times 2 \\
 \boxed{-\frac{42}{8} - \frac{27}{8}} \\
 \frac{-69}{8} = \boxed{-8\frac{5}{8}}
 \end{array}
 \end{array}$$

B.  $-2\frac{1}{4} - -3\frac{3}{8}$

$$\begin{array}{r}
 -2\frac{1}{4} - -3\frac{3}{8} \\
 \times 2 \\
 \begin{array}{r}
 -\frac{9}{4} - -\frac{27}{8} \\
 \times 2 \\
 \boxed{-\frac{18}{8} - -\frac{27}{8}} \\
 \frac{9}{8} = \boxed{1\frac{1}{8}}
 \end{array}
 \end{array}$$

$$A. \quad -2^{1/4} + -3^{3/8} - -7^{2/3}$$

$$\begin{aligned}
 & -2^{1/4} + -3^{3/8} - -7^{2/3} \\
 & \begin{array}{l} \times 6 \\ \times 6 \end{array} \frac{-9}{4} + \frac{-27 \times 3}{8 \times 3} - \frac{23 \times 8}{3 \times 8} \\
 & \boxed{-\frac{54}{24} + -\frac{81}{24} - -\frac{184}{24}} \\
 & \frac{49}{24} = 2^{1/24}
 \end{aligned}$$

# Word Problem...

1. Finish Assignment from Friday if not completed.

## **Classwork/Homework**

2. Midunit Review Questions:.

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