

Warm-Up

October 1, 2015

A. $-4\frac{1}{6} + \left(1\frac{3}{7} - \frac{1}{2}\right)$

$-\frac{25}{6} + \left(\frac{10}{7} - \frac{1}{2}\right)$

$-\frac{25}{6} + \left(\frac{20}{14} - \frac{7}{14}\right)$

$-\frac{25}{6} + \frac{13}{14}$

$-\frac{175}{42} + \frac{39}{42}$
 $-\frac{136}{42}$

$-3\frac{10}{42}$
 $-3\frac{5}{21}$

B. $-\frac{1}{6} \div \left(-1\frac{1}{4} - \frac{-1}{2}\right)$

$-\frac{1}{6} \div \left(-\frac{5}{4} - \frac{-1}{2}\right)$

$-\frac{1}{6} \div \left(-\frac{5}{4} - \frac{-2}{4}\right)$

$-\frac{1}{6} \div -\frac{3}{4}$ (Flip)

$-\frac{1}{6} \times \frac{4}{3}$
 $\frac{4}{18} = \frac{2}{9}$

No Calculator!

$$\begin{array}{r}
 \frac{1}{2} - \frac{1}{3} \times \frac{1}{2} - \frac{1}{3} \\
 \xrightarrow{\quad} \quad \quad \quad \xrightarrow{\quad} \\
 \begin{array}{r}
 \times^3 \quad \times^2 \\
 \frac{1}{2} - \frac{1}{6} - \frac{1}{3} \\
 \times^3 \quad \times^2 \\
 \frac{3}{6} - \frac{1}{6} - \frac{2}{6} \\
 \frac{0}{6}
 \end{array}
 \end{array}$$

$$\frac{5}{6} - \frac{2}{3} \times \frac{3}{4} + \frac{5}{6}$$

$$\overset{x^2}{x^2} \frac{5}{6} - \frac{6}{12} + \frac{5}{6} \overset{x^2}{x^2}$$

$$\frac{10}{12} - \frac{6}{12} + \frac{10}{12}$$

$$\frac{14}{12} \quad 1\frac{2}{12} \quad \left(1\frac{1}{6}\right)$$

Homework Questions???

Orders of operations and Substituting...

Using the values given for m, n and p solve the following... $m = 2$ $n = 4$ $p = -2$

$$4 \times 2 - 4$$

A. $4m - n$

$$4(2) - 4$$

$$8 - 4$$

$$4$$

←
orders.
of
operation

B. $3n + 4p - m$

$$3(4) + 4(-2) - 2$$

$$12 + -8 - 2$$

$$2$$

Which expression is greater when $x=4$

A. $3x + 7$ or $3(x+7)$

$$\begin{array}{r} 3(4) + 7 \\ 12 + 7 \\ 19 \end{array} < \begin{array}{r} 3(4+7) \\ 3(11) \\ 33 \end{array}$$

Formulas, Substitutions and Orders of Operations

Use this formula to convert from Fahrenheit temperatures to Celsius:

$$C = \frac{F - 32}{1.8}$$

$$C = \frac{F - 32}{1.8}$$

A. 0°F

$$C = \frac{0 - 32}{1.8}$$

$$= \frac{-32}{1.8}$$

$$= -17.8^{\circ}\text{C}$$

B. -40°F

$$C = \frac{-40 - 32}{1.8}$$

$$= \frac{-72}{1.8}$$

$$= -40^{\circ}\text{C}$$

C. -53°F

$$C = \frac{-53 - 32}{1.8}$$

$$= \frac{-85}{1.8}$$

$$= -47.2^{\circ}\text{C}$$

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7 [d] -8

Homework/Classwork

8 [a] solve then compare
 $\rightarrow 8.81$ 11 [b] $10^{\circ}\text{C}, -25^{\circ}, 0^{\circ}\text{C}$ 12 [d] $1\frac{1}{6}$ 13 [b] -5.62 18 1.43