November 10, 2014 1st 2nd

Starter

If 3 green chips have the same value as 5 blue chips,
2 red chips have the same value as 1 yellow chip,
and 4 red chips have the same value as 3 green chips,
how many blue chips can you get for 8 yellow chips?

Gypsy

(14) $\left[\left(\frac{3}{4}\right)^2 - 1\frac{1}{2}\right]\left(-\frac{1}{4}\right)$

$= \left[\frac{9}{16} + -1\frac{1}{2}\right]\left(-\frac{1}{4}\right)$

$= \frac{-15}{16}\left(-\frac{1}{4}\right)$

$= \frac{15}{64}$

$\frac{3}{4} \cdot \frac{3}{4}$

$= \frac{9}{16}$

$-1\frac{1}{2} \quad \frac{24}{16}$

$+\frac{9}{16} \quad \frac{9}{16}$

$-\frac{15}{16}$

11/10 - Evaluating Expressions using Rational Numbers

To do "evaluate" problems:

1. Write the problem.
2. Rewrite, substituting values.
3. Work problem step by step.
4. Circle the answer.

$a = \frac{-2}{3}$ $b = \frac{1}{4}$ $c = 2\frac{1}{2}$ $d = -1\frac{1}{6}$

$$c + a$$

$$= 2\tfrac{1}{2} + \left(-\tfrac{2}{3}\right)$$

$$= 1\tfrac{5}{6}$$

$2\frac{1}{2} = 2\frac{3}{6}$

$-\frac{2}{3} = -\frac{4}{6}$

$1\frac{5}{6}$

$a = \frac{-2}{3}$ $b = \frac{1}{4}$ $c = 2\frac{1}{2}$ $d = -1\frac{1}{6}$

$$a^2 - d$$

$$= \left(\frac{-2}{3}\right)^2 - \left(-1\frac{1}{6}\right)$$

$$= \frac{4}{9} + 1\frac{1}{6}$$

$$= 1\frac{11}{18}$$

$1\frac{1}{6} \quad \frac{3}{18}$

$\frac{4}{9} \quad \frac{8}{18}$

$1\frac{11}{18}$

$a = \frac{-2}{3} \quad b = \frac{1}{4} \quad c = 2\frac{1}{2} \quad d = -1\frac{1}{6}$

$$2d + 3b$$

$$= 2\left(-1\tfrac{1}{6}\right) + 3\left(\tfrac{1}{4}\right)$$

$$= -2\tfrac{1}{3} + \tfrac{3}{4}$$

$$= -1\tfrac{7}{12}$$

$\frac{\cancel{2}^{1}}{1} \cdot \frac{-7}{\cancel{6}_{3}}$

$= -\frac{7}{3}$

$= -2\frac{1}{3}$

$\frac{3}{1} \cdot \frac{1}{4} = \frac{3}{4}$

$$\begin{array}{r} -2\frac{1}{3} \quad \frac{4}{12} \\ +\ \frac{3}{4} \quad \frac{9}{12} \\ \hline -1\frac{7}{12} \end{array}$$

Homework

Green WS 10

evens only

Due Tuesday end of class