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

Homework from last week:

$$\left(-2\frac{2}{3}\right)^2 - \frac{3}{5}$$

$$= \left(-\frac{8}{3}\right)^2 - \frac{3}{5}$$

$$= \frac{64}{9} - \frac{3}{5}$$

$$= 6\frac{23}{45}$$

$$\begin{array}{r} 6 \\ +\ 7\!\!\not\;\; \frac{15}{95} \\ -\ \frac{39}{59} \\ \hline 6\frac{23}{45} \end{array} \qquad \begin{array}{r} 50 \\ \not 5 \\ \frac{45}{45} \\ \frac{27}{45} \end{array}$$

To do "evaluate" problems:

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

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

$a + b$

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

$= -\frac{5}{12}$

$-\frac{2}{3}$ $-\frac{8}{12}$

$\frac{1}{4}$ $\frac{3}{12}$

$-\frac{5}{12}$

$c + a$

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

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

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

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

$1\frac{5}{6}$

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

$$a^2 - d$$

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

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

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

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

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

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

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

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

$(b-c)^2$

$= \left(\frac{1}{4} + 2\frac{1}{2}\right)^2$

$-2\frac{1}{2}\ \frac{2}{4}$
$+\frac{1}{4}\ \frac{1}{4}$
$-2\frac{1}{4}$

$= \left(-2\frac{1}{4}\right)^2$

$= \frac{81}{16}$

$= 5\frac{1}{16}$

$-2\frac{1}{4} \cdot -2\frac{1}{4}$
$= \frac{-9}{4} \cdot \frac{-9}{4}$
$= \frac{81}{16}$

$2d + 3b$

$= 2 \cdot -1\frac{1}{6} + 3 \cdot \frac{1}{4}$

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

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

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

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

$-2\frac{1}{3}\ \frac{16}{12}$
$+\frac{3}{4}\ \frac{9}{12}$
$-1\frac{7}{12}$

Homework

Green WS 10

Due End of class Tuesday