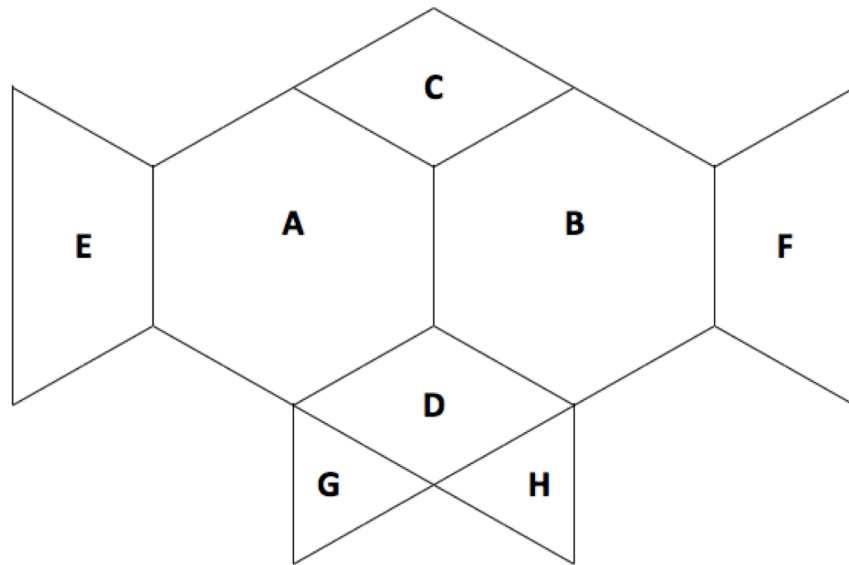



Name Student #4

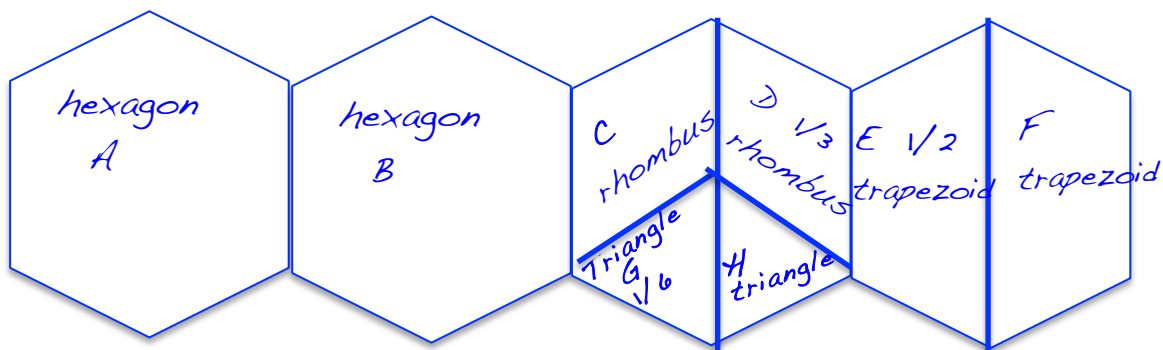
A Farmer's Fields

A farmer's fields are worth \$1,200 total. The fields are formed with the geometric figures shown below, which are composed of triangles of the same size and with all sides the same length. Each field's value is based on its size. What fraction of the total value is each field worth? How much is each field worth? Show and explain all of your mathematical thinking.



I have to find out how the fraction and the total value of each field is.

I will use a diagram to see how many  hexagons there are.



My thinking

$$\begin{array}{r} 300 \\ 4 \overline{) 1200} \\ \underline{12} \\ 00 \\ \underline{0} \\ 0 \end{array}$$

$$\begin{array}{r} 100 \\ 3 \overline{) 300} \end{array}$$

$$\begin{array}{r} 150 \\ 2 \overline{) 300} \\ \underline{2} \\ 10 \\ \underline{10} \\ 0 \\ 0 \\ 0 \end{array}$$

$$\begin{array}{r} 50 \\ 6 \overline{) 300} \\ \underline{30} \\ 0 \\ 0 \\ 0 \end{array}$$

$$1/3 + 1/3 + 1/3 = 3/3 = 1 \text{ whole}$$

$$1/2 + 1/2 = 2/2 = 1 \text{ whole}$$

$$1/6 + 1/6 + 1/6 + 1/6 + 1/6 + 1/6 = 6/6 = 1 \text{ whole}$$

Answer 1: Field A = 1 whole Field B = 1 whole

Field C = $1/3$ Field D = $1/3$

Field E = $1/2$ Field F = $1/2$

Field G = $1/6$ Field H = $1/6$

Answer 2: Field A = \$300 Field B = \$300

Field C = \$100 Field D = \$100

Field E = \$150 Field F = \$150

Field G = \$50 Field H = \$50