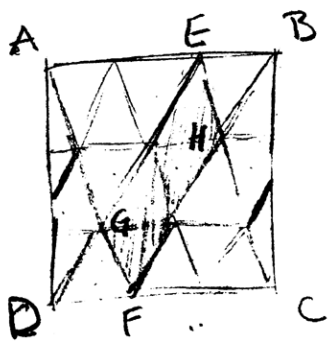
Work:

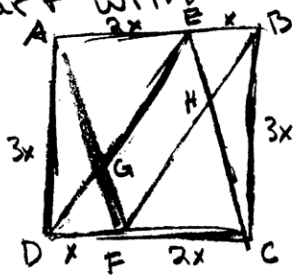
622
#2

#2

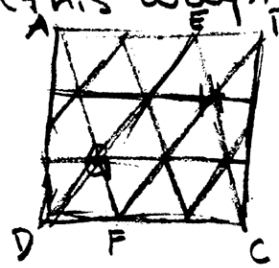



Answer: 2/9

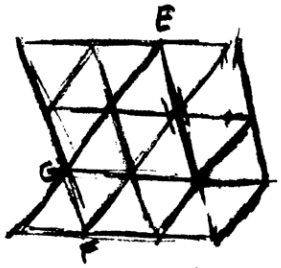
Why: You start with a square, ABCD. You know the ratio of the sides.




$\overline{ED}$ and $\overline{BF}$ must have a slope of 3/2, while $\overline{AF}$ and $\overline{EC}$ have a slope of -3. Draw equal spaced lines accross the square in this way. Also draw horizontal lines through the intersections.




Take △ AGD and attach it to the other side.




There are 18 triangles, four of which are in the quadrulateral EGFH, so the ratio of EGFH to ABCD is 4/18, or 2/9.