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Grade: 6th

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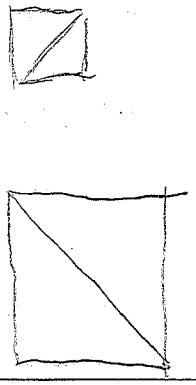
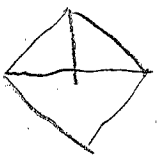
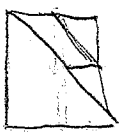
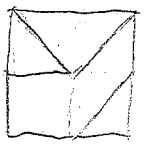
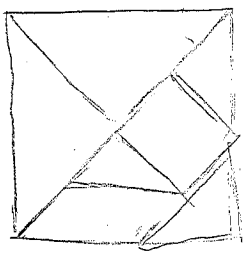
It's All In the Pieces

Utah's Largest Math Event 2009 (qualifier)

Construct squares using 2 pieces, 3 pieces, etc., all the way up to 7 pieces. Sketch your solutions and answer the questions below.

# of pieces	Solution	# of pieces	Solution
2		3	
4		5	
6		7	

1. Explain your strategy for assembling the different squares. You can try to put the harder pices with the samallest triangles, and if that doesn't worke, then add on another peice. You can flip, turn, and slide each amount in anyway to make it fit a spot. If you just try one way to put an amount in, it is a good chance that it won't work. But if you flip, turn, or slide it, it might fit better.

2. Are there any amounts that are not possible to make a square with? Which amounts? Why is it impossible? Yes, amount 6, because in amount 6, you used all the pices except for two big triangles and if you try to add one on in any way possible, it will never make a square.