Diagram 1

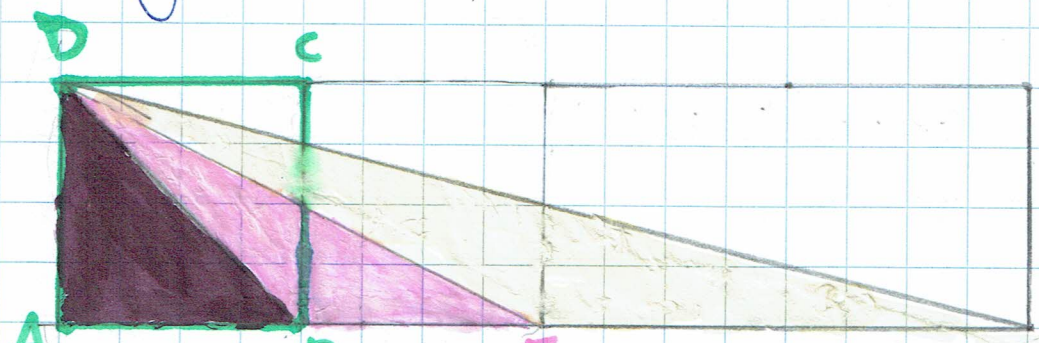
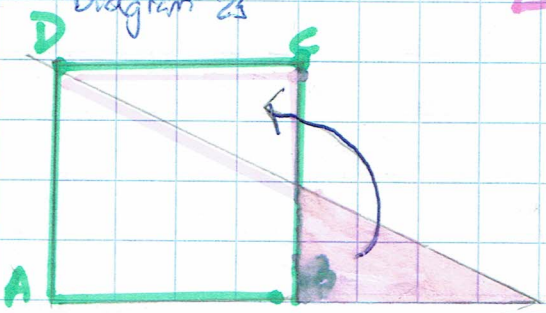


Diagram 2:



$\triangle ADE = \square ABCD$

♡ Triangle in a square ♡ : Explanation by area.

Refers to Diagram 1 & 2

Shape	Area	Compare	Conclusions
Square $ABCD$	$\overline{AB} \times \overline{AD}$		
$\triangle ADB$	$\frac{1}{2} \times \overline{AB} \times \overline{AD}$	$\frac{1}{2} \times (\overline{AB} \times \overline{AD}) < (\overline{AB} \times \overline{AD})$	△ inside □ $\triangle ABD < \square ABCD$
$\triangle ADE$	$\frac{1}{2} \times \overline{AE} \times \overline{AD}$	$\frac{1}{2} \times \overline{AE} \times \overline{AD} = \overline{AB} \times \overline{AD}$	△ overlap □ $\triangle ADE = \square ABCD$
$\triangle ADF$	$\frac{1}{2} \times \overline{AF} \times \overline{AD}$	$\frac{1}{2} \times \overline{AF} \times \overline{AD} > \overline{AB} \times \overline{AD}$	△ sit outside □ $\triangle ADF > \square ABCD$

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♡Triangle in a Square♡

I can put some triangles in some squares, but this is not because a triangle has fewer sides than a square.

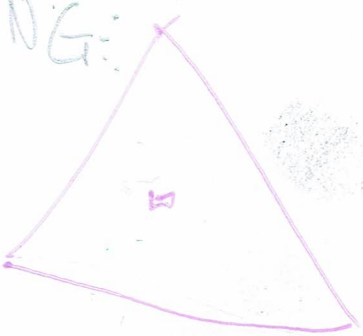
It is because of area!

Sorry Badger, but you're wrong

I can put a hexagon in a square. But I have disproved you, Badger. You are WRONG!

It maybe possible though.

I'm not convinced.



Here you go.