

# Geometry - Putting It All Together

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## 1 From the TJTST 1/2

1.  $ABC$  is a triangle where  $AB = 3$ ,  $BC = 4$ ,  $AC = 5$ .  $D$  lies on  $AB$  and  $E$  lies on  $BC$  such that the area of  $ADEC$  is twice the area of  $DEB$ . Compute the smallest possible value of  $DE$ .
2. Consider  $\triangle ABC$  with area 100. Let  $D, E, F$  be points on  $BC, CA, AB$  respectively such that  $\frac{CD}{DB} = 1$ ,  $\frac{AE}{EC} = 2$ ,  $\frac{BF}{FA} = 3$ . Let  $X, Y, Z$  be the intersections  $AD \cap BE$ ,  $BE \cap CF$ ,  $CF \cap AD$  respectively. Find the area of  $\triangle XYZ$ .
3. Consider  $\triangle ABC$  with side lengths  $AB = 7$ ,  $BC = 9$ ,  $AC = 12$ . Construct squares  $ACDE$ ,  $ABFG$ , and  $BCIH$  entirely outside of triangle  $ABC$ . Let  $J, K, L$  be the midpoints of  $EH, DG, AC$  respectively. Find the area of triangle  $JKL$ .

## 2 Before We Get Started

Here are some things you hopefully remember from previous years competing in mathematical olympiads or through self-study and lectures:

- Properties of cyclic quads
- Similar triangles, areas, ratios, and how they're useful
- Special theorems on concurrency and collinearity: Menelaus and Ceva
- Circle properties (the Radical Axis Theorem)

Here are some tips to keep in mind when solving geometry problems:

- If you're stuck on a problem, DO NOT JUST STARE AT THE DIAGRAM (1) label what you are given (2) make conjectures (3) try using various constructions (parallel lines, extensions, reflections, etc.)
- If possible, work both ways when attempting to prove a result.
- Always work with a large, neat diagram (as in legible and easy to label and spot)
- Bring compass and straightedge when tackling complex geometry problem. Often times, having multiple diagrams can also be helpful.

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**Annelies Wilder-Smith**



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