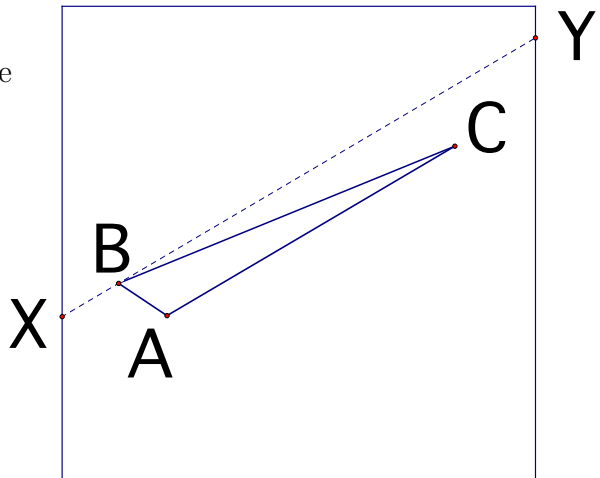


# Score 122: Quiz 3

1. Use the diagram to the right to answer the following questions. Note this diagram is not drawn to scale.



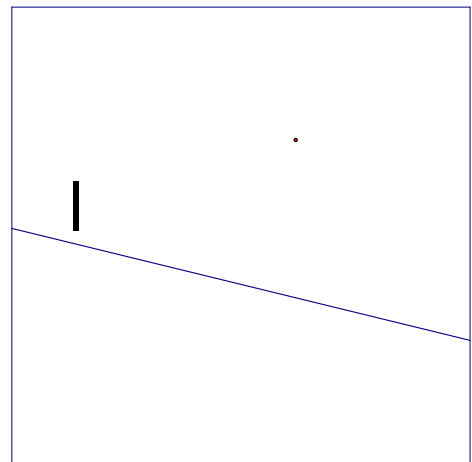
(a) [1] (Wks #3) Given that  $\angle YBC \cong \angle BCA$ , what can you conclude about lines  $\overline{XY}$  and  $\overline{AC}$ ? (You do not need to justify yourself.)

(b) [1] (Wks #3) Treat  $\overline{BC}$  as a transversal of  $\overline{XY}$  and  $\overline{AC}$ . Identify a pair of alternating interior angles.

(c) [3] (Wks #4) If you knew that  $\angle BAC \cong 19^\circ$  and  $\angle YBC \cong 52^\circ$ , find the measure of  $\angle ABC$ .

(d) [2] Do you trust the measurements quoted above in part (c)? Why or why not?

2. [3] (Wks #4) Outline the process of folding a line perpendicular to  $l$  that also passes through the given point.



3. [2] (Lang) The first set of instructions in Chapter 3 produces the following origami model. What did Lang say this was a model of?



4. [2] (Lang) That is it that makes an origami model inefficient in Lang's view?

5. [3] (Lang) Justify the following quote found on page 46 of Lang's text:

*Generally, the more long points a model has, the smaller the final model will be relative to the size of the square.*

6. [3] (Lang) Name three bases. (Both traditional & standard bases will be accepted.)