Name _____ Date _____ Pd _____

3.2 Parallel & Perpendicular Lines CUBING ACTIVITY WS

With your partner/table grab a yellow (angle classifications) and orange cube (lines & transversal). Roll each die ten times or until you have ten unique pairs. Write down the rolls and draw a diagram. Fill in the rest of the chart, and then answer the questions.

Yellow die	Orange die	Lines & Transversal Sketch	Congruent, Supplementary, or Neither	Given one angle, how many angles can you figure out?

a) Using your first example (or a different one if your lines are perpendicular, tell me which one you chose) make an angle equal $27°$. Fill out as much as possible of your diagram using that angle measure.

b) Using your fifth example, explain how changing one thing would change your answer in the last three columns. (Use complete sentences.)

c) Name AT LEAST one thing you noticed, using inductive reasoning, about your table that you can make a conjecture about.