

Make-Your-Own Triangles Game - Handout

Directions:

- 1. Cut out all cards and then spread them out, face down.
- 2. Select three cards at random.
- 3. Write them into corresponding places in the table below, across one row.
 - If you select angles measured in degrees, place them into any "Angle Measures" columns.
 - If you select side lengths measured in cm, place them into any "Side Lengths" columns.
- 4. Predict and test if you can create no triangles, 1 or 2 unique triangles, or many triangles from those measurements.
- 5. Fill out the rest of that row, showing or explaining your reasoning.
- 6. Repeat the process for a new set of 3 cards in the next row of the table.

Angle Measures			Side Lengths			How many unique triangles? (None, 1, 2, or many)	
∠A	∠B	∠C	\overline{AB}	ĀC	\overline{BC}	Show or explain.	



Make-Your-Own Triangles Game - Cards

2 cm	2 cm	3 cm	3 cm
4 cm	4 cm	5 cm	5 cm
6 cm	6 cm	6 cm	6 cm
90°	90°	120°	120°
30°	30°	45°	45°
15°	60°	60°	60°