







The contestants take a long escalator to an underground amphitheater. A small crowd of gamers looks on. Jack and Olivia take their places on the raised area at the center of the stage.

The **emcee** begins, "Welcome to the National Gaming Challenge. Today's competition is between the finalists of the 2-D and 3-D categories. Jack Larkin will create two-dimensional video games, and Olivia Kuan will work in three-dimensional virtual reality. There will be four rounds of competition. Each round will focus on a different shape. Whoever creates the best games will win and...become the new reigning champion!"

Visions of classic video games flash in Jack's head. His old favorites always come to mind whenever it is time to design a new game.

Olivia begins chewing her gum in slow motion. Her mind, though, is moving at lightning speed. She silently vows to create something that no one has ever imagined.

"Do you accept this challenge?" the emcee asks Jack and Olivia.

"I do," they both answer. They give each other a quick glance.

"Then, let the games begin," the emcee declares to the audience. "Competition will start tomorrow. Tonight, have some dinner and meet new people. Good luck to you both!".

LET'S EXPLORE MATH

Jack designs classic 2-D games. Identify the polygons used in the characters below.



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