**Basketball Practice**

Rashida’s team is standing in a circle, practicing passing by playing “rounds”. In round 1, each player passes the ball to the player next to them until it returns to Rashida. In round 2 they pass it to one player away, skipping one student each time, until it returns to Rashida. The team keeps skipping an additional player each round. The game ends when Rashida must pass to herself.

1. Create a visual representation (it could be a picture, a chart or anything else that helps you see the situation) to figure out how many passes there would be in a circle with four people.
2. Rashida’s team plays the game and is able to complete 20 total passes. Rashida’s coach decides to join and they go through all the rounds and still complete only 20 passes. How many people were in the circle before Rashida’s coach joined them? How can circles with different numbers of people have the same number of total passes?