





Answer the following questions to the best of your ability. Each question is worth 1 point. Your final score will determine the outcome.

Scoring:

- 1 point Redistribute 3 shots among team members.
- 2 points Redistribute 2 shots among team members.
- 3 points Redistribute 1 shots among team members.
- 4 points Redistribute 1 shot among the members of a chosen enemy team.
- 5 points Redistribute 2 shot among the members of a chosen enemy team. The Quiz Master drinks.

A Möbius strip is a 2D surface with only one side and one edge. If you cut it along its central line, what happens, and why? (Write your answer below!)

What path did Galileo Galilei originally propose as the fastest descent route between two points, A and B? And what did later scientists, like Johann Bernoulli, determine was the actual fastest path? (Drawing an approximate solution also awards points, you can choose either!)

Answer to Q1:	A	
Answer to Q2:		B

In the famous Monty Hall problem, a game show contestant is asked to pick one of three doors. Behind one door is a car, and behind the other two, goats. After the contestant picks a door, the host (who knows what's behind each door) opens one of the other two doors, revealing a goat. The contestant is then asked if they want to switch doors. What's the probability of winning the car if they switch, and why? **(Write your answer below!)**

In the 18th century, the city of Königsberg had a unique problem: they wanted to cross each of their seven bridges exactly once in a continuous route. Mathematician Leonhard Euler proved it was impossible. What branch of mathematics did Euler's solution help to create? (Circle the correct answer!)



Once you've completed all the questions and finalized your answers, **please bring the question sheet to one of the quiz navigators** for evaluation!