High School:

Indy 500

1.	The Indianapolis Motor Speedway (IMS), the "Brickyard," is a 2.5-mile rectangular of track with four turns and two straightaways. Each of the four turns is 1/4 mile long, as front and back stretches are 5/8 mile long. The short straightaways between turns 1 ar and 3 and 4 are 1/8 mile long. The track is 50 feet wide on the straights and 60 feet with the turns. This provides a total surface area of 78,000 square yards. The track is known the "Brickyard" because it was once made of 3.2 million bricks. Currently a 3-foot stracks still indicate the start/finish line. What percent of the original bricks remain on track?		
	Answer		
2.	The Indy 500 race is considered the largest single day sporting event in the world. In 2024 fan attendance hit 345,000 for race day alone. Compare this number to the attendance at other major sporting events: FIFA 2022 (88,966), Superbowl 2025 (65,719), NBA Finals (50,621), MLB Championship game (50,621). Do you agree that the Indy 500 is the large single day sporting event in the world? Justify your answer using mathematical reasoning.		
3.	IndyCar race cars have	ve very poor fuel economy, aver	raging less 1.8 miles per gallon. This is



