Indy 500 6th – 8th Grade:

1. The track for the Indy 500 is 2.5 miles long. Anthony is traveling at a speed of 170 mph and Benito is traveling at a speed of 168 mph. What is the difference between their location of the track after 3 laps? Justify your decision.

2. The Indy 500 was started to test and improve car manufacturing. In 1950 the average speed during the race was 128 mph. In 2024 the average speed was 167 mph. What is the percent change in the average speeds? Justify your answer.

3. Traditionally the winning team earns 20% of the prize money. In 1950 Johnie Parsons earned \$57,458 out of a total prize money of \$201,635. Whereas Josef Newgarden's team earned \$4,288,000 out of \$18,456,000 prize money. Josef claims he earned a smaller percent of the prize money than Parsons won in 1950. Do you agree or disagree with Josef's claim? Justify your answer.

