

Movin' 'n Groovin'

Level C

Courtney got a remote-control car for her birthday. It is metallic purple with chrome wheels that are $1\frac{1}{2}$ inches in diameter.

She said to her friend Dylan, “My remote-control car goes faster than my mom’s car on the freeway.” “No way,” said Dylan. Courtney said, “I will prove it to you.”

Courtney measured off a distance of 115 inches. Dylan said, “Okay, I will time how long it takes your car to travel that distance. I have a stop watch feature on my watch.” Courtney raced her remote-control car over the 115-inch distance. Dylan said, “Wow, that only took 3.21 seconds. That seems really fast.” “See, I told you,” said Courtney. “But Mom drives 60 miles per hour on the freeway. So how fast is your car really going?” asked Dylan.

Determine the speed of Courtney’s remote-control car and compare its speed to that of a regular car traveling on the freeway. Explain how you found your solution.

