Task: Use a diagram to explain why a car travelling 2.5 miles in 1 minute goes the same speed as a car traveling $\mathbf{1 0}$ miles in $\mathbf{4}$ minutes.

1. Redraw your diagram from Episode 2 to show that a car traveling 2.5 miles in 1 minute is going at the same speed as a car traveling 10 miles in 4 minutes. Carefully label your diagram.
2. Explain why the two cars are traveling at the same speed. Use your diagram.
3. Another pair of students got a different answer. They said that the red car should travel 7 miles in 1 minute to go at the same speed as the blue car when it travels 10 miles in 4 minutes.

What do you think the students were thinking?
Does their reasoning work? Why or why not?
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