

Activity 2 of Lesson:
Another Type of Non-Proportional Reasoning

Discuss in your groups:

1. What is Kate's reasoning?

2. **Why** do you think Kate's idea may seem reasonable to her? Make a conjecture.

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Task: The blue car travels 12 miles in 9 minutes. Enter a distance and a time for the red car so that it goes the same speed as the blue car.

Kate's answer: 15 miles in 12 minutes

Transcript:

Teacher: Kate, why don't you tell Christopher why you think that would work.
Christopher: I'm not disagreeing
Kate: Because they are both multiples of 3. And 9 plus 3 equals 12.
Then 12 plus 3 equals 15.
Christopher: So for every 3 miles that you add, you add 3 minutes
Kate: Yeah
Teacher: Do you want to try that?
Christopher [enters 15 miles in 12 minutes and runs the simulation]
They're not going at the same speed and they're both not gonna arrive at the same time.
Kate: You're not trying to get them arrive at the same time, but yeah, they weren't going at the same speed.