Smarter Balanced Assessment Item Illustrating 6.EE.B.7

Mrs. Jonas offered to drop off and pick up some students from their sporting events. In one afternoon, she drove:

- from home to tennis
- from tennis to soccer
- from soccer to tennis
- from tennis to home

Mrs. Jonas took the shortest routes to and from each destination.
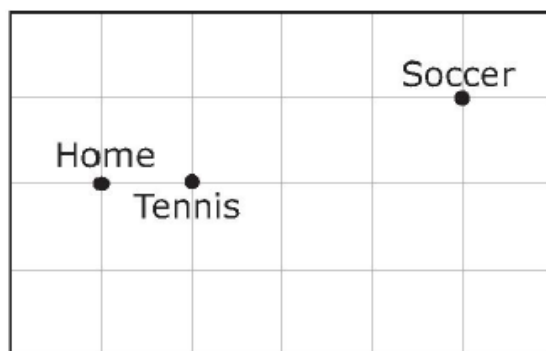Mrs. Jonas saw that she had driven a total of 15 miles that afternoon.

The figure shows the location of Mrs. Jonas' home, the tennis courts, and the soccer field. The gridlines in the figure represent the streets, and all distances between cross streets are approximately the same.

Part A:
Write an equation that can be used to find the distance, d, between the tennis courts and home. Enter your answer in the first response box.

Part B:
What is the distance, in miles, between home and the tennis courts?
Enter your answer in the second response box.

Answer Key

$d+4d+4d+d=15$, or equivalent; 1.5

Elaboration on Alignment

This item illustrates an important, grade-appropriate connection between MP4 (Model with mathematics) and the major work of grade 6 requiring students to write and solve simple equations. This alignment principle reminds us that the Standards for Mathematical Practice should not be assessed separately from the grade-level content and allow us opportunities to ensure that assessment items span the full breadth intended by standards labeled as major work of the grade.

Learn More

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