

Reteaching 2-7 Try, Test, Revise

On vacation, your family spent 4 hours driving 220 miles across a state. Part of the time you drove on a scenic state highway at 40 miles per hour. The rest of the time you drove on an interstate at 60 miles per hour. How long did you drive on each type of highway?

Try 3 hours on the state highway. That leaves 1 hour on the interstate. In 3 hours, at 40 miles per hour, you travel 120 miles. In 1 hour, at 60 miles per hour, you drive 60 miles. That is a total of 180 miles, which is not enough. You must have spent more time on the interstate.

Organize the conjectures in a table.

Hours on State Hwy	Hours on Interstate	Distance on State Hwy	Distance on Interstate	Total Distance
3	1	$3(40) = 120$	$1(60) = 60$	$120 + 60 = 180$
2	2	$2(40) = 80$	$2(60) = 120$	$80 + 120 = 200$
1	3	$1(40) = 40$	$3(60) = 180$	$40 + 180 = 220$

Your family traveled one hour on the state highway and three hours on the interstate highway.

Solve using the Try, Test, Revise strategy. Organize your guesses in the table.

- The Wolverines scored 42 points in a football game. They scored 2 more field goals (3 points each) than touchdowns (6 points each). How many field goals and touchdowns did they score?

Touchdowns	Fieldgoals	Points from Touchdowns	Points from Fieldgoals	Total Points