

7. Splitting Degrees

Name _____

Directions: Please show all work, describe how you got the answer, and circle your final answer. If you use a calculator, say so, but also write out the calculations you did with the calculator.

The Problem: In the Close Shave challenge, Eli programmed his robot to use 1,920 degrees of wheel rotation to complete the three-tile part of the challenge.

1. How many degrees of wheel rotation would you expect Eli to have programmed his robot for the one-tile part of the challenge?

2. How many degrees of wheel rotation would you expect Eli to have programmed his robot for the two-tile part of the challenge?

3. How many degrees of wheel rotation would you expect Eli to have programmed his robot if there were a fourth part of the challenge that required his robot to go four and a half tiles?