

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## **Tire Lifetime**

A typical tire starts with about  $10/32$ " of tread depth. A tire is considered unsafe when it has  $2/32$ " of tread depth, or even before that. A typical tire loses about  $1/32$ " of tread depth every 6,000 miles. About how many miles can you drive on a typical tire?

Extensions:

- Write a formula for how many miles a tire has left based on its tread depth.
- Make a graph of this formula.
- How much tread does a tire lose in one mile of driving?
- How much tread does a tire lose in one full revolution of the wheel?

*Show your work, and write your answer in a complete sentence.*