

4.3 PROJECT

WHICH TIRE IS THE BEST OPTION?

Calculating unit rates can help you make better decisions when it comes time to spend your hard-earned money. For example, dealing with car maintenance can be a frustrating experience. How can a person make an informed decision when replacing tires?

In this project, you will explore the use of unit rates to help you choose a new set of tires for your car.

You have budgeted a maximum of \$370 for a set of new tires. The following table shows two different brands of tires that would fit your vehicle.

Name	Raptor VR	Solus TA31
Price per Tire	\$83.26	\$90.00
Set of 4 Tires	\$333.04	\$360.00
Mileage Warranty	55,000 miles	65,000 miles

1. If total cost is your only consideration, which tire is the “best” choice?
2. The Raptor VR has a 55,000-mile warranty. Find the rate of miles to dollars for one Raptor VR tire. Write your answer as a unit rate.
3. The Solus TA31 has a 65,000-mile warranty. Find the rate of miles to dollars for one Solus TA31 tire. Write your answer as a unit rate.
4. What do the rates in parts 2 and 3 measure?
5. If getting the most for your money and staying within your budget is your goal, which tire seems like a better buy? Explain your reasoning. (**Hint:** Compare the percentage change between the two prices and between the two rates of miles per dollar.)