

Tire and Wheel Diameters Worksheet (Worksheet A)

Name _____ Date _____ Period _____

(W)(.039)(A)(2) + D = total diameter. Round to nearest tenth.

My grandma Millie wants to customize her 1965 Lincoln Continental. Millie thinks some fancy chrome wheels on her car would be a hit at the retirement village. She needs to make sure the new tire and wheel assembly is the same diameter as the original equipment so it will not throw off the accuracy of her speedometer. Grandma is on a fixed income and cannot afford new tires and wheels. We found 4 sets of tire and wheel assemblies that will fit her car on Craig's List.

1. The original tires on the car were 255/70/R15. What is the diameter of the tire and wheel assembly?
2. The new tires are 255/55/R15. What is the diameter of the tire and wheel assembly?
3. The new tires are 275/70R16. What is the diameter of the tire and wheel assembly?
4. The new tires are 255/55R18. What is the diameter of the tire and wheel assembly?
5. The new tires are 285/35R20. What is the diameter of the tire and wheel assembly?
6. Which tire size will grandma want to use for her new rims?