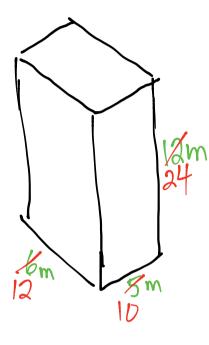
Name

Date

A storage shed is a rectangular prism and has dimensions of 6 meters by 5 meters by 12 meters. If Jean were to double these dimensions, she believes she would only double the volume. Is she correct? Explain why or why not. Include a drawing in your explanation.



Original Volume = $6mx 5mx lam = 360 m^3$ Now Volume = $12 \text{ m} \times 10 \text{ m} \times 24 \text{ m} = 2880 \text{ m}^3$

We can see that doubling each dimension results in a new volume that is much greater than doubling the original Volume.



Lesson 7: Solve word problems involving the volume of rectangular prisms with whole number edge lengths.