Name		Date				
Wr	en makes some rectangular display b	oxes.				
1.	Wren's first display box is 6 inches lo display box? Explain your work usin	ong, 9 inches wide, and 4 inches high. What is the volume of the g a diagram.				
2.	Wren wants to put some artwork into three shadow boxes. She knows they all need a volume of 60 cubi inches, but she wants them all to be different. Show three different ways Wren can make these boxes by drawing diagrams and labeling the measurements. Shadow Box A Shadow Box B					



Lesson 7:

engage^{ny} Solve word problems involving the volume of rectangular prisms with whole number edge lengths.

Shadow Box C		

3. Wren wants to build a box to organize her scrapbook supplies. She has a stencil set that is 12 inches wide that needs to lay flat in the bottom of the box. The supply box must also be no taller than 2 inches. Name one way she could build a supply box with a volume of 72 cubic inches.

- 4. After all of this organizing, Wren decides she also needs more storage for her soccer equipment. Her current storage box measures 1 foot long by 2 feet wide by 2 feet high. She realizes she needs to replace it with a box with 12 cubic feet of storage, so she doubles the width.
 - a. Will she achieve her goal if she does this? Why or why not?
 - b. If she wants to keep the height the same, what could the other dimensions be for a 12-cubic-foot storage box?



Lesson 7:

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

