

3.) How did the three dimensional shape change from #1 to #2?

the height doubled

a.) How did this change affect our surface area and volume? Volume is doubled / surface Area Doubled



7.) Surface Area= $1808in^2$ Volume= 103680 in 3

8.) Surface Area= 1505in² Volume= 3840 in 3





9.) How did the three dimensional shape change from #1 to #2?

multiplied by a factor of 1/3

a.) How did this change affect our surface area and volume? volome was multiplied by 27. Surface Area was multiplied by 1/8.

Directions: Show all work. (Suggestion: Draw diagrams!)

doubles.

10.) How would the volume of a rectangular solid change if the length, width, and height are doubled?

V = (2x)(2y)(2z)V = b(Xyz)The volume would be multiplied by 6.

11.) If the length and width of a rectangular solid are unchanged but the height is doubled, how does the volume guestion #17#2, The volume change? From

12.) A side of a cube measures 8 centimeters and a side of a smaller cube measures 4 centimeters. The volume of the larger cube is how many times the volume of the smaller cube?

V=83 $V=4^3$ The large 2 V=512 cm³ V=04 cm³ cube is 8 times as much $V = S^3$

