

GUIDED NOTES

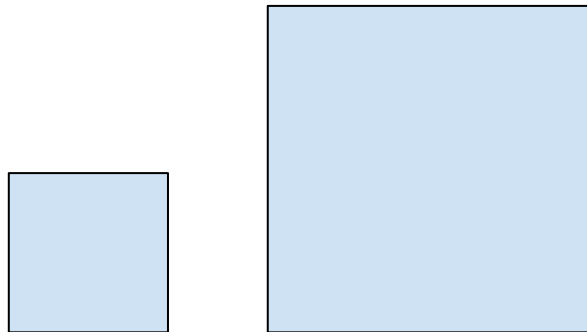
What's the Rule?

If the ratio of the sides of two similar figures is _____

- The ratio of their perimeters is _____
- The ratio of their areas is _____
- The ratio of their volumes is _____

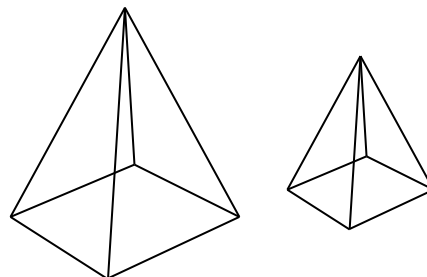
Example 1

The first square has an area of 6 cm^2 and the length of the second square is twice as long. What is the area of the second square?



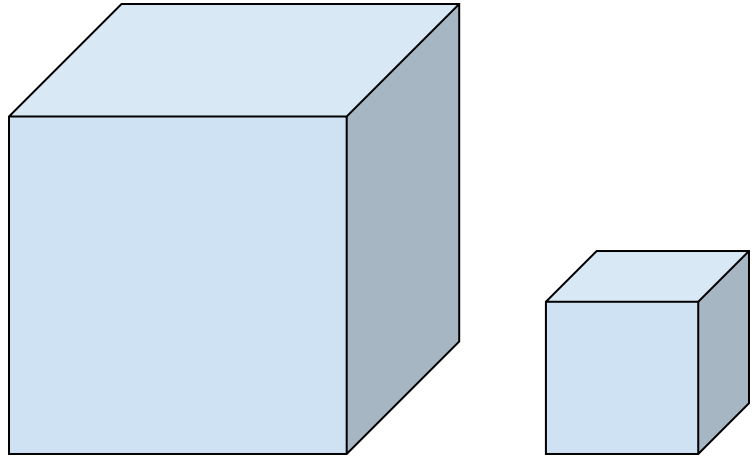
Example 2

You are given two similar square pyramids. One has a volume of 108 in^3 and the height of the other is three times shorter. What is the volume of the smaller pyramid?



Example 3

The surface area of Cube A is 52 mm^2 and the surface area of Cube B is 13 mm^2 . What is the ratio of their volumes (A:B)?



Bonus Question

Can you name 2 common three-dimensional shapes that are always similar to every other shape of the same name? Why are they always similar?