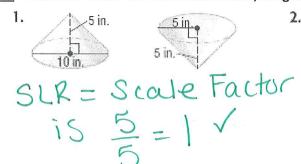
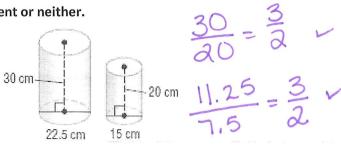
## 13.4 Similar Solids

- Similar solids are solids which have the same <u>Shape</u> but different
  in Size
- The ratio of corresponding parts is called the Scale factor
- In order for two solids to be similar, all corresponding parts must have the same <u>SLR</u>, <u>Scale</u>.

Pg. 754

**Ex1** Determine if the two solids are similar, congruent or neither.





Similar must check all Parts!

9ft

9 ft

18 ft

12 ft

- If two solids are similar and their scale factor is a:b then:

  - The ratio of volumes is  $0^3:b^3$

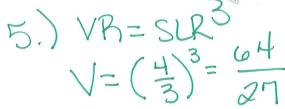
<u>Ex2</u>

For Exercises 3-5, refer to the pyramids on the right.

3. Find the scale factor of the  $\frac{12}{9} = \frac{4}{3}$  two pyramids.

- Find the ratio of the surface areas of the two pyramids.
- Find the ratio of the volumes of the two pyramids.





Homework:

Pg 754, #s: 7-31 odd

(You may have to do evens to get answers to odds).