

## 12.8 Congruent and Similar Solids

**G.TS.3** Know properties of congruent and similar solids, including prisms, regular pyramids, cylinders, cones, and spheres; solve problems involving congruent and similar solids.

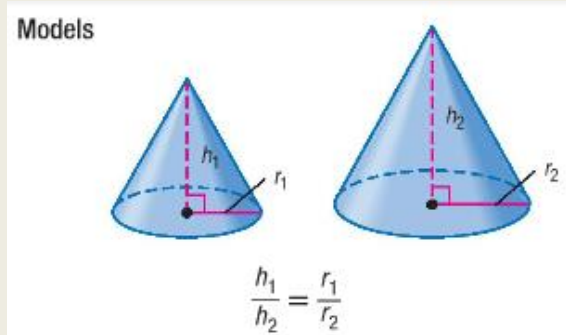
**Similar Solids**  $\Rightarrow$  have the same shape, but not necessary the same size

**Congruent Solids**  $\Rightarrow$  have exactly the same size and shape

Congruent solids are similar solids that have a scale factor of 1:1.

### Concept Summary

Two solids are similar if they have the same shape and the ratios of their corresponding linear measurements are equal.



### Ex 1:

Determine whether each pair of solids is *similar*, *congruent*, or *neither*. If the solids are similar, state the scale factor.

