

11.8 Puzzle Time

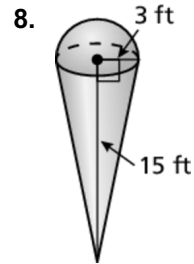
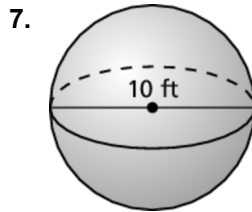
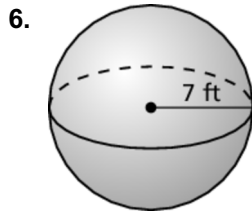
What Do Chickens Collect On The Beach?

Circle the letter of each correct answer in the boxes below. The circled letters will spell out the answer to the riddle.

Complete the sentence.

1. A(n) _____ is the set of all points in space equidistant from a given point.
2. A chord of a sphere is a(n) _____ whose endpoints are on the sphere.
3. If a plane contains the center of a sphere, then the intersection is a(n) _____ circle of the sphere.
4. Find the radius (in feet) of a sphere with a surface area of 8π square feet.
5. Find the diameter (in centimeters) of a sphere with a surface area of 156π square centimeters.

Find the volume in cubic feet. Round your answer to the nearest tenth.



9. Sphere A is similar to Sphere B. The scale factor of the lengths of the radii of Sphere A to Sphere B is 1 to 4. Sphere A has a radius of 6 units and a volume of 288π cubic units. Find the volume (in cubic units) of Sphere B.

A	M	E	I	G	N	G	S	O
line	718.0	sphere	6.7	1436.8	147	523.6	$18,432\pi$	4365.6
R	H	E	G	L	E	M	L	S
big	great	$2\sqrt{39}$	circle	$\sqrt{2}$	3.4	2304π	197.9	segment