

Unit 4 - 4.9 & 4.10



Volume of Sphere &
Real World Volume Problems

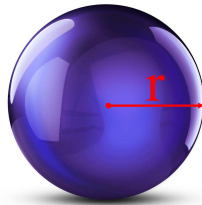
Today's Learning Targets:

4.9 I can recall and use the formula to find the volume of a sphere.

4.10 I can solve real-world problems involving the volume of cylinders, cones, and spheres.

Volume of a Sphere

V =



What is the volume of the given sphere in cubic inches?

Step 1: State the **Formula**

Step 2: Fill in the formula with **numbers**



Step 3: Crunch the numbers

Step 4: **Label** your answer

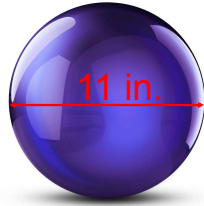
$$v = \frac{4}{3}\pi r^3$$

Unit 4 - 4.9 & 4.10

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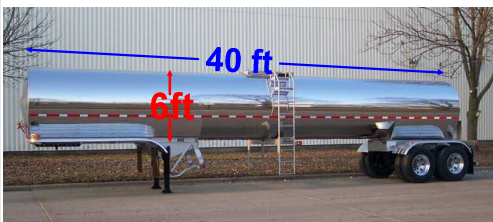
Real-World Situations!!

How many gallons does this tanker hold?

Step 1: **What is the shape and it's formula?**

Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers



1 ft³ ≈
7.5 gal

Unit 4 - 4.9 & 4.10

What is the volume of an ice cream cone that is **4.5 cm high** and has a **diameter of 3 cm**?

Step 1: Draw a picture then solve.

Step 2: **What is the shape and it's formula?**

Step 3: Fill in the formula with **numbers**

Step 4: Crunch the numbers

Approximately how many moons would fit in the earth?

Step 1: **What is the shape and it's formula?**

Step 2: Fill in the formula with **numbers**

Step 3: Crunch the numbers



$r_m = 1,079.5 \text{ mi}$
 $r_e = 3,963 \text{ mi}$

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