QUIZIZZ

NAME : _____

CLASS : _____

DATE : _____

Homework 6.3 due Mon 2/29 *2 Problems Require Work*

13 Questions

1.   Volume is the amount of space an object takes up or contains.

☐ a) True   ☐ b) False
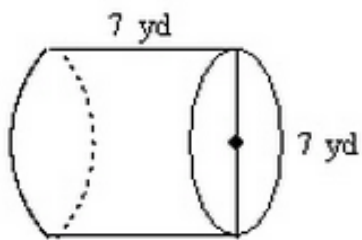
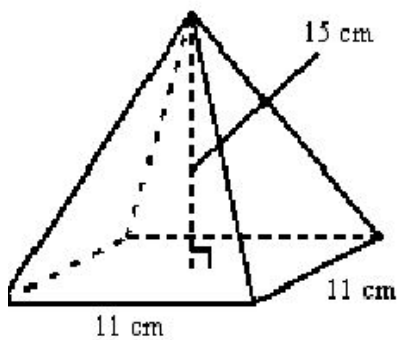2.   The units for Volume are always

☐ a) squared   ☐ b) cubed

3.

What is the volume? Use $\pi = 3.14$

☐ a) 1,077 yd³   ☐ b) 269 yd³

☐ c) 154 yd³

4.

Find the volume of the figure.

☐ a) 126 cm³   ☐ b) 907.5 cm³

☐ c) 605 cm³   ☐ d) 55 cm³

5. A fish-tank has a length of 45 centimeters, a width of 25 centimeter and a
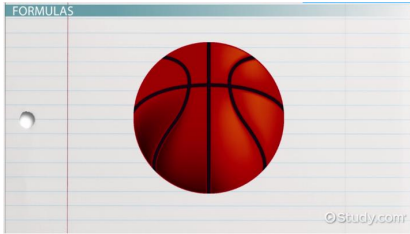   depth of 10 centimeter. Find the volume of the fish-tank.

☐ a) 10250 cm3   ☐ b) 11250 cm3

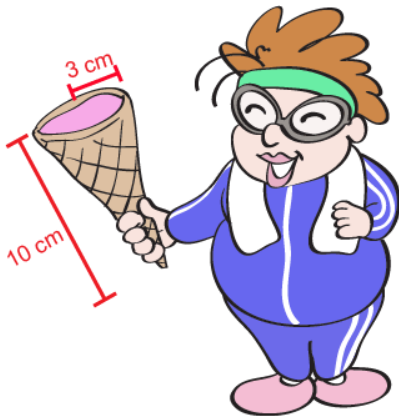☐ c) 11250 ft3   ☐ d) 10250 ft3

6.

WORK REQUIREDCalculate the approximate Volume of this basketball,
knowing its diameter is 9.55 inches (use pi = 3.14 and round to the
nearest whole number)

☐ a) 456 cm3   ☐ b) 3647 cm3

☐ c) 1146 cm3

7.

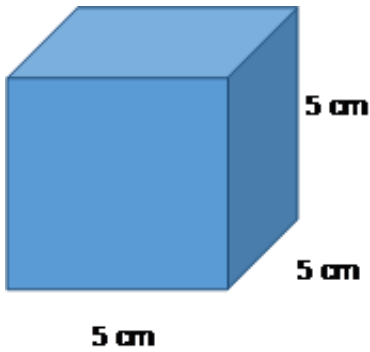What is the volume of the lady's cone? Use pi = 3.14 and round to the
nearest tenth

☐ a) 28.3 cm^2 ☐ b) 94.2 cm^3

☐ c) 282.7 cm^3 ☐ d) 113.1 cm^3

8.

5 cm

5 cm

5 cm

What is the volume of this cube?

- [ ] a) 125 cubic cm
- [ ] b) 100 cubic cm
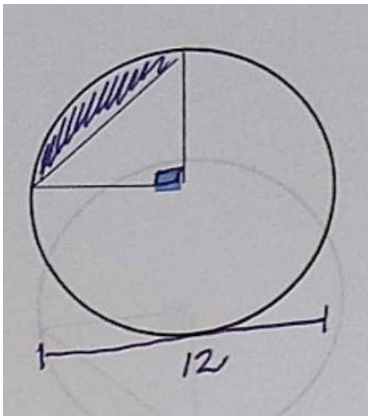- [ ] c) 15 cm
- [ ] d) 150 cubic cm

9.

The length of the megaphone (height, really) is 24 inches and the diameter of the circle base is 20 inches. Compute the volume of the megaphone, leaving pi in the answer.

- [ ] a) $800\,\pi$ cu. inches
- [ ] b) $3200\,\pi$ cu. inches
- [ ] c) $2400\,\pi$ cu. inches

10.

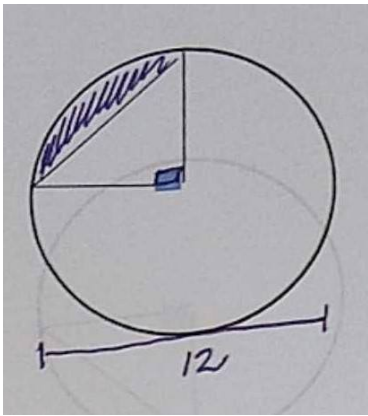In the diagram, if the hands of the clock show it is 9:00 pm, what is the length of the arc between the hands?

- [ ] a) 6π
- [ ] b) 9π
- [ ] c) 3π
- [ ] d) 12π

11.

If you are given a piece of pizza that is 1/4 the entire thing, how much area of pizza are you given? {ignore the shading, find the area of the sector}

- [ ] a) 9π
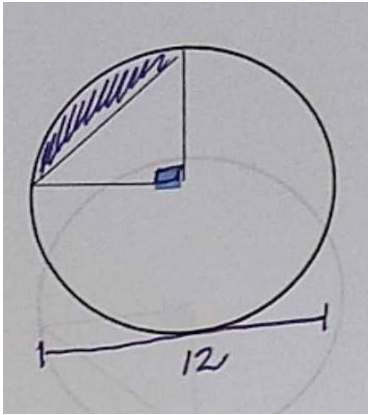- [ ] b) 30π
- [ ] c) 36π
- [ ] d) 144π

12.

Which set-up demonstrates how to solve for the shaded area, known as a lune?
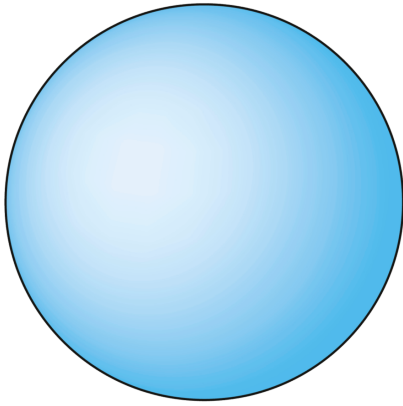
- [ ] a) $90 - 36\pi$
- [ ] b) $36 - 36\pi$
- [ ] c) $\dfrac{90 \cdot \pi \cdot 6^2}{360} - \dfrac{6 \cdot 6}{2}$
- [ ] d) $\dfrac{90 \cdot \pi \cdot 12^2}{360} - 144$

13.

WORK REQUIRED If the globe pictured has a radius of 12 cm, what is its volume?

a) 192π cu. cm

b) $\dfrac{16}{3}\pi$ cu. cm

c) 2304π cu. cm

d) 6912π cu. cm