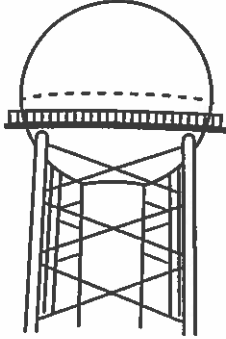


HW # 2.1

Name: _____

A water tower has a spherical tank with a diameter of 6 meters.

1)



Which of the following is closest to the volume of the water tower tank?

- Ⓐ $288\pi \text{ m}^3$
- Ⓑ $12\pi \text{ m}^3$
- Ⓒ $48\pi \text{ m}^3$
- Ⓓ $36\pi \text{ m}^3$

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

$$V = \frac{4\pi (\quad)^3}{3}$$

$$V = \frac{4\pi (\quad)}{3}$$

$$V = \frac{\pi (\quad)}{3}$$

$V =$

2.) George spends 20 minutes inflating a beach ball. When completely inflated, the ball has a diameter of 18 inches. To the nearest hundredth cubic inch, what is the volume of the fully inflated beach ball? Use $\pi \approx 3.14$.

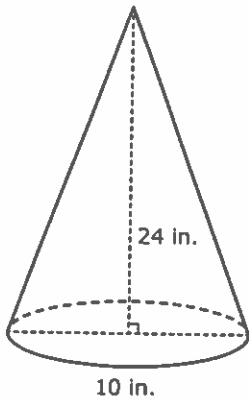
Record your answer and fill in the bubbles on the grid below. Be sure to use the correct place value.

					.		
+	0	0	0	0		0	0
-	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

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

$$V =$$

3.)



What is the approximate volume of Zaidie's decoration, to the nearest cubic inch? Use $\pi \approx 3.14$.

Record your answer and fill in the bubbles on the grid below. Be sure to use the correct place value.

					.		
+	0	0	0	0		0	0
-	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

$$V = \frac{Bh}{3}$$

$$V = \frac{\pi r^2 h}{3}$$

$$V = \frac{\pi ()^2 ()}{3}$$

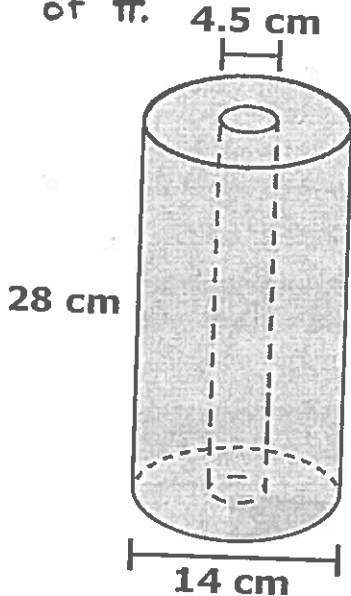
$$V =$$

$$V =$$

$$V =$$

4.) A new roll of paper towels is sitting on the counter. Mia wants to find out the volume of only the paper towels without the cardboard tube. Find the volume of the paper towels.

Leave your answer in terms of π .



$$V = Bh$$

$$V = \pi r^2 h$$

$$V =$$

$$V = Bh$$

$$V = \pi r^2 h$$

$$V =$$