

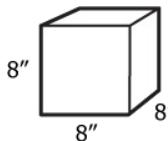
## Math Measurement Geometry and Algebra 7\_3

Student Name: \_\_\_\_\_

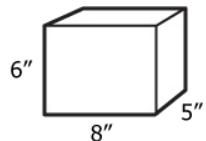
Date: \_\_\_\_\_

**1.**

$$V = L \times W \times H$$



A

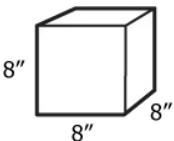


B

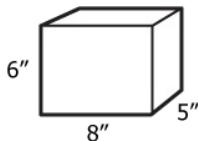
Volume of A \_\_\_ Volume of B

**2.**

$$\text{Surface Area} = 2(lw + lh + wh)$$



A



B

SA of A \_\_\_ SA of B

**A.** >

**B.** <

**C.** =

**A.** <

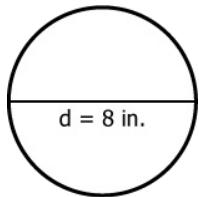
**B.** >

**C.** =

**3.**

$$\text{Area} = \pi r^2$$

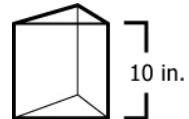
$$r = \frac{1}{2} \times d$$



$$A = \underline{\hspace{2cm}} \text{ in.}^2$$

**4.**

$$\text{Volume} = \text{base area} \times h$$



$$\text{Volume} = 30 \text{ in.}^3$$

$$\text{Base area} = \underline{\hspace{2cm}} \text{ in.}^2$$

**A.**  $8\pi$

**B.**  $64\pi$

**C.**  $16\pi$

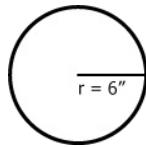
**A.** 30

**B.** 3

**C.** 20

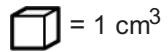
5.

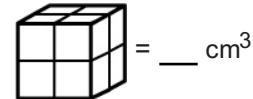
$$\text{Area} = \pi r^2$$



$$\text{Area is } \underline{\text{about}} = \underline{\hspace{1cm}} \text{ in.}^2$$

6.


$$\underline{\hspace{1cm}} = 1 \text{ cm}^3$$


$$\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ cm}^3$$

A. 18

B. 36

C. 110

A. 24

B. 8

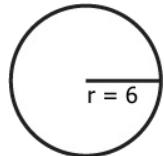
C. 16

7.

14 in. is about the circumference  
of a   .

8.

$$\text{Area} = \pi r^2$$



$$A = \underline{\hspace{1cm}} \text{ units}^2$$

A. marble

B. baseball

C. car tire

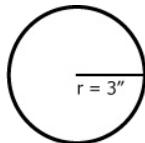
A.  $12\pi$

B.  $42\pi$

C.  $36\pi$

9.

$$C = 2 \times \pi \times r$$



$$C = \underline{\hspace{2cm}} \text{ in.}$$

10.

$$\text{Area} = \pi r^2$$

$$r = 7 \text{ in.}$$

$$A = \underline{\hspace{2cm}} \text{ in.}^2$$

A.  $18.84$

B.  $18.24$

C.  $16.84$

A.  $49\pi$

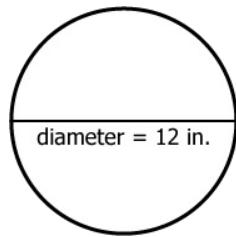
B.  $14\pi$

C.  $49$

11.

$$\text{Area} = \pi r^2$$

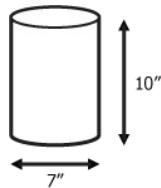
$$r = \frac{1}{2} \times \text{diameter}$$



$$A = \underline{\hspace{2cm}} \text{ in.}^2$$

12.

$$\text{Volume} = \text{Area of base} \times \text{Height}$$



$$\text{Area of base} = 12.5\pi \text{ in.}^2$$

$$\text{Volume} = \underline{\hspace{2cm}} \text{ in.}^3$$

A.  $36\pi$

B.  $24\pi$

C.  $12\pi$

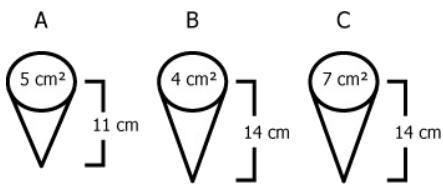
A.  $125\pi$

B.  $50\pi$

C.  $70\pi$

13.

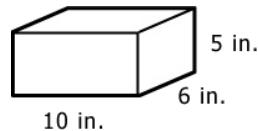
$$\text{Volume} = \frac{1}{3}(\text{Area of Base} \times H)$$



Which cone has volume  
of about  $32.7 \text{ cm}^3$ ?

14.

$$\text{Surface Area} = 2(lw + lh + wh)$$



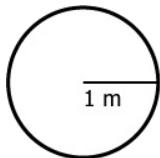
$$\text{SA} = \underline{\hspace{2cm}} \text{ in.}^2$$

- A. A
- B. B
- C. C

- A. 300
- B. 280
- C. 210

15.

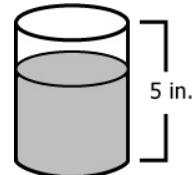
$$\text{Area} = \pi r^2$$



$$A = \underline{\hspace{2cm}} \text{ m}^2$$

16.

$$\text{Volume} = \text{base area} \times h$$



$$\text{base area} = 6 \text{ in.}^2$$

There are  $20 \text{ in.}^3$  of water.  
How much more water can fit?

- A.  $\pi$
- B.  $\pi^2$
- C.  $2\pi$

- A.  $20 \text{ in.}^3$
- B.  $10 \text{ in.}^3$
- C.  $30 \text{ in.}^3$