

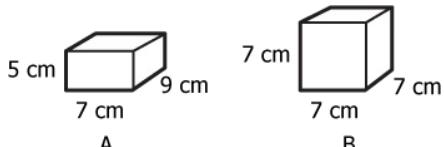
## Math Measurement Geometry and Algebra 7\_1

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

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

1.

$$\text{Volume} = L \times W \times H$$



$$\text{Volume of A} \underline{\quad} \text{Volume of B}$$

2.

3 cylinders have equal height.

Which has the greatest surface area?

A. >

B. =

C. <

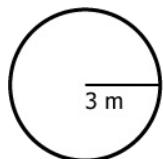
A.  area of base =  $1\pi \text{ in.}^2$

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

C.  area of base =  $4\pi \text{ in.}^2$

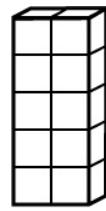
3.

$$\text{Circumference} = 2\pi r$$



$$C = \underline{\quad} \text{ m}$$

4.



$$\text{Volume} = 10 \text{ in.}^3$$

How many 1 in.<sup>3</sup> blocks fit inside this shape?

A. 23

B.  $6\pi$

C.  $\pi$

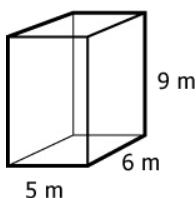
A. 11

B. 10

C. 100

5.

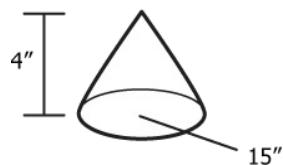
$$\text{Surface Area} = 2(lw + lh + wh)$$



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

6.

$$\text{Volume} = \text{Area of base} \times \text{Height} \div 3$$



$$\text{Area of base} = 15 \text{ in.}^2$$

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

A. 270

B. 168

C. 258

A. 20

B. 30

C. 60

7.

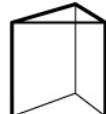
$$\text{Circumference} = 2\pi r$$

$$r = 4 \text{ in.}$$

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

8.

$$\text{volume} = \text{base area} \times \text{height}$$



$$\text{base area} = 12 \text{ sq. in.}$$
$$\text{volume} = 48 \text{ cubic in.}$$

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

A.  $8\pi$

B.  $16\pi$

C.  $6\pi$

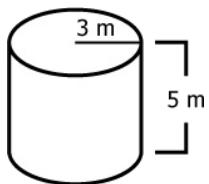
A. 36

B. 8

C. 4

9.

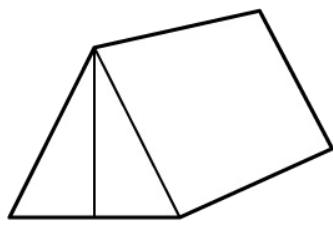
$$\text{Volume} = \pi r^2 h$$



$$V = \underline{\hspace{2cm}} \text{ m}^3$$

10.

$$\text{Volume} = \text{Area of Base} \times \text{length}$$



$$\text{Volume} = 25 \text{ in.}^3$$

$$\text{Area of Base} = 5 \text{ sq. in.}$$

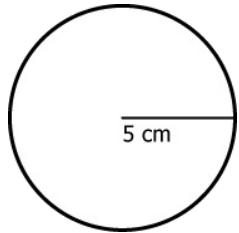
$$\text{length} = \underline{\hspace{2cm}} \text{ in.}$$

- A.**  $45\pi$
- B.**  $95\pi$
- C.**  $14\pi$

- A.** 125
- B.** 5
- C.** 20

11.

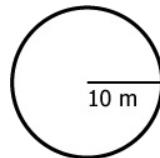
$$\text{Area} = \pi r^2$$



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

12.

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



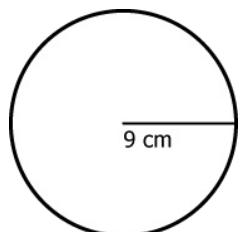
$$A = \underline{\hspace{2cm}} \text{ m}^2$$

- A.** 78.5
- B.** 77.5
- C.** 83.5

- A.**  $10\pi^2$
- B.**  $20\pi$
- C.**  $100\pi$

13.

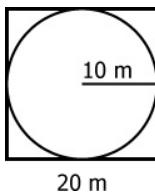
$$\text{Area} = \pi r^2$$



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

- A.** 254.34
- B.** 240.30
- C.** 250.83

14.

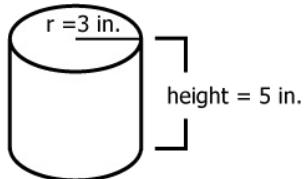


Which shows how much greater the square area is than the circle area?

- A.**  $400 + 100\pi$
- B.**  $400 - 100\pi$
- C.**  $200\pi + 400$

15.

$$\text{Surface Area} = 2\pi r^2 + 2\pi rh$$

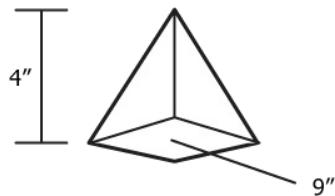


$$SA = \underline{\hspace{2cm}} \text{ in.}^2$$

- A.**  $48\pi$
- B.**  $24\pi$
- C.**  $90\pi$

16.

$$\text{Volume} = \text{Area of base} \times \text{Height} \div 3$$



$$\text{Area of base} = 9 \text{ in.}^2$$

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

- A.** 18
- B.** 12
- C.** 36