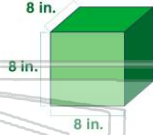




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

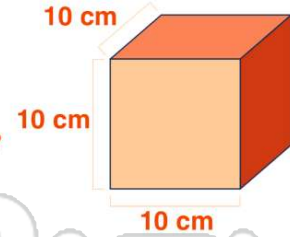
1 A cube has width, length, and height which all measure the same. The volume of a cube, therefore, would be  $s^3$  where  $s = \text{the length of one side}$ . What would the volume of an 8 inch cube be?

A 64 sq. in.  
B 512 cu. in.  
C 640 cu. in.  
D 512 sq. in.



2 The volume of a 10 cm cube would be  $10^3$ . True or false?

A true  
B false



3 Groups of small fish often increase exponentially when food is plentiful. If a school of 12 fish is expected to grow  $12^3$  over the course of a year, how many fish will mostly likely be in the tank when the year passes?

4 Flower bulbs grow larger and split into smaller bulbs each year. If 8 bulbs make 8 smaller, new bulbs, and this process continues, how many bulbs will be available after 4 years?

A  $2 \times 8^2 = 128$   
B  $4 \times 64 = 512$



5

**PREVIEW**

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7 A true  
B false

$25^2$

A true  
B false

$30^3$

9  $16^2 = 16 \times 16 = 320$   
True or false?  
A true  
B false

$16^2$

10  $10^3 = 10 \times 10 \times 10 = 10,000$   
True or false?  
A true  
B false

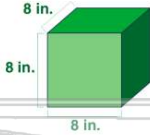
$10^3$



## ANSWER KEY

A cube has width, length, and height which all measure the same. The volume of a cube, therefore, would be  $s^3$  where  $s$  = the length of one side. What would the volume of an 8 inch cube be?

- A 64 sq. in.
- B 512 cu. in.
- C 640 cu. in.
- D 512 sq. in.

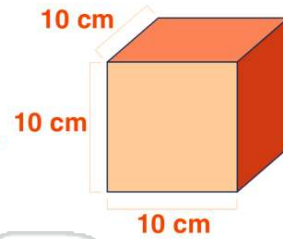


(b)

The volume of a 10 cm cube would be  $10^3$ .

True or false?

- A true
- B false



(a)

Groups of small fish often increase exponentially when food is plentiful. If a school of 12 fish is expected to grow  $12^3$  over the course of a year, how many fish will mostly likely be in the tank when the year passes?

- A 144
- B 1,400
- C 1,728
- D 1,660



(c)

Flower bulbs grow larger and split into smaller bulbs each year. If 8 bulbs make 8 smaller, new bulbs, and this process continues, how many bulbs will be available after 4 years?

- A  $2 \times 8^2 = 128$
- B  $4 \times 64 = 512$
- C  $4^8 = 65,536$



(d)



## PREVIEW

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$16^2 = 16 \times 16 = 320$

True or false?

- A true
- B false



$16^2$

(b)

$10^3 = 10 \times 10 \times 10 = 10,000$

True or false?

- A true
- B false



$10^3$

(b)