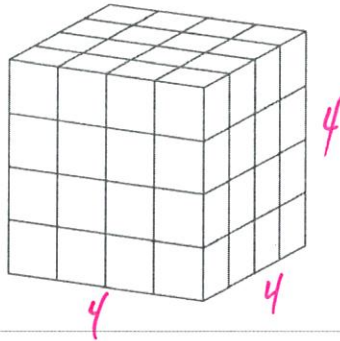


25. Which of the following sets of powers is arranged in order of increasing value from left to right?

- 4 -1 1 4*
- A.  $-2^2, -1^2, (-1)^2, (-2)^2$
  - B.  $(-2)^2, (-1)^2, -1^2, -2^2$
  - C.  $-1^2, (-1)^2, -2^2, (-2)^2$
  - D.  $(-1)^2, -1^2, -2^2, (-2)^2$

The cubes in the 3-D object shown below represent a repeated multiplication and a power.



32. Which of the following rows identifies the repeated multiplication and the power that the 3-D object represents?

Row	Repeated Multiplication	Power
A.	$3 \times 3 \times 3 \times 3$	$3^4$
B.	$3 \times 3 \times 3 \times 3$	$4^3$
C.	$4 \times 4 \times 4$	$3^4$
D.	$4 \times 4 \times 4$	$4^3$

*$4 \times 4 \times 4 = 4^3$*

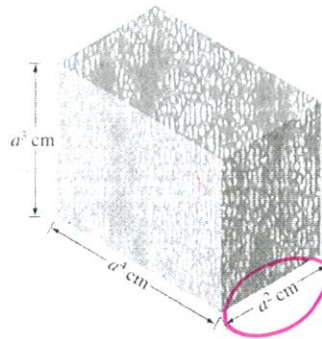
9. The values of  $4^5$  and  $5^4$  are   i   because   ii  .

The statement above is completed by the information in row

	i	ii
A.	equal	$4 \times 5$ has the same value as $5 \times 4$
B.	equal	both powers represent the same model
C.	not equal	two powers cannot have the same value
<b>D.</b>	not equal	they cannot be written using the same repeated multiplication

Use the following information to answer question 20.

The shortest edge of the rectangular prism shown below is 64 cm.



$a^2 = 64$   
 $a = \sqrt{64} = 8$

Note: The diagram shown above has **not** been drawn to scale.

20. The length of the longest edge is

- A. 256 cm
- B. 512 cm
- C. 1 024 cm
- D.** 4 096 cm

$a^4 = 8^4 = 4096$