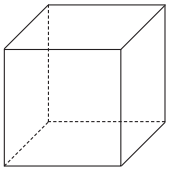
Cubes of small numbers

What is 2^3?

$2 \times 2 \times 2 = 8$



What is the volume of this cube?

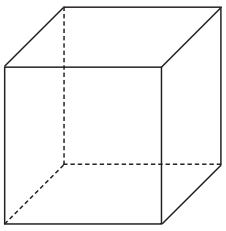
$2 \text{ in.} \times 2 \text{ in.} \times 2 \text{ in.} = 8 \text{ in.}^3$

You find the volume of a cube in the same way you work out the cube of a number.

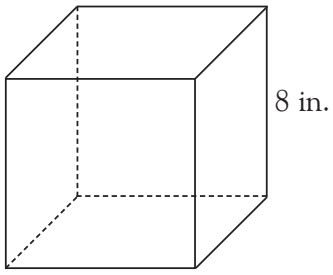
Use extra paper here if you need to. What is...

3^3		4^3	
6^3		5^3	
1^3		2^3	

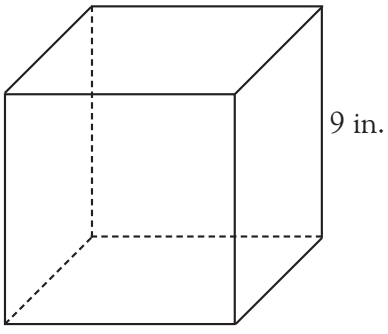
What are the volumes of these cubes?



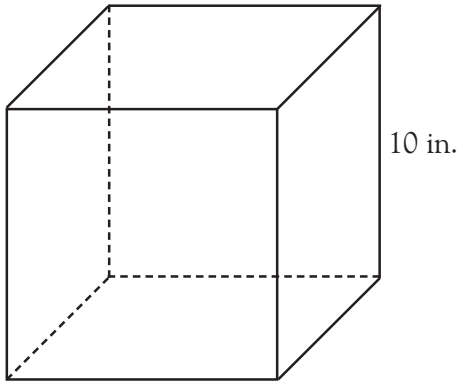
in.^{3}



in.^{3}



in.^{3}



in.^{3}

Cubes of small numbers

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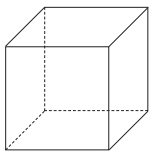


What is the volume of this cube?

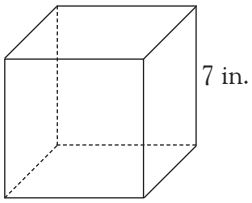
$2 \text{ in.} \times 2 \text{ in.} \times 2 \text{ in.} = 8 \text{ in.}^3$

You find the volume of a cube in the same way you work out the cube of a number.

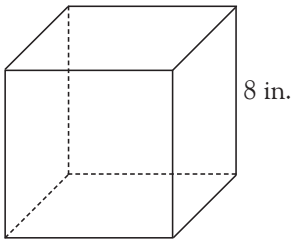
Use extra paper here if you need to. What is...

3^3	$3 \times 3 \times 3 = 27$	4^3	$4 \times 4 \times 4 = 64$
6^3	$6 \times 6 \times 6 = 216$	5^3	$5 \times 5 \times 5 = 125$
1^3	$1 \times 1 \times 1 = 1$	2^3	$2 \times 2 \times 2 = 8$

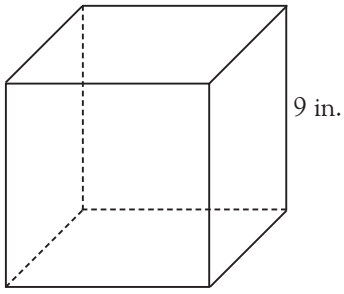
What are the volumes of these cubes?



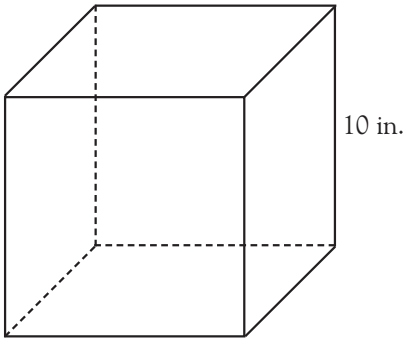
343 in.^3



512 in.^3



729 in.^3



$1{,}000 \text{ in.}^3$

The most common mistake children make is confusing three cubed with three times three, especially when they are working quickly through the examples. It is necessary to reinforce the concept of cubing a number. Children may need some paper for their working out.