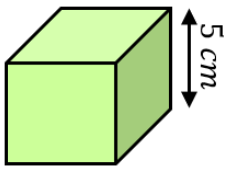
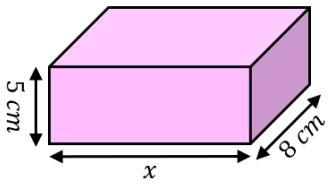
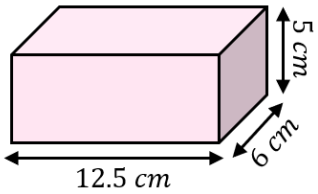
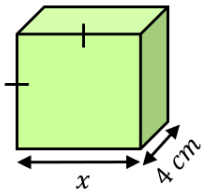
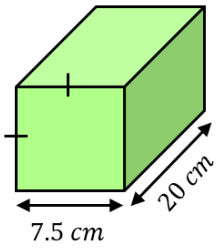
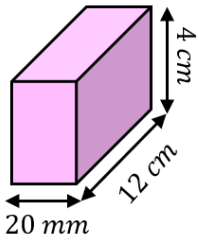
Match-Up

Volume of Cubes and Cuboids

1	Find the volume of the cube. 	**5**	The volume is $420\ cm^3$. Find x. 	**9**	A cuboid with dimensions $12\ cm$ by $24\ cm$ by $40\ cm$ is filled by 180 identical cubes. What is the length of the side of a cube?
2	Find the volume. 	**6**	The volume is $289\ cm^3$. Find x. 	**10**	The volume of a cube is twice the volume of a cuboid with dimensions $3\ cm$ by $4\ cm$ by $9\ cm$. Find the side length of the cube.
3	Find the volume. 	**7**	Find the side length of a cube with volume $3375\ cm^3$.	**11**	A cuboid has side lengths in the ratio $2 : 4 : 5$. If the shortest side length is $5\ cm$, find the volume of the cuboid.
4	Find the volume. 	**8**	Find the volume of a cuboid whose side lengths in cm are the first, third and fifth prime numbers.	**12**	A cuboid has sides of length x, x and $3x$. Its volume is $1536\ cm^3$. Find the value of x.

A	$15\ cm$	**D**	$8\ cm$	**G**	$10.5\ cm$	**J**	$4\ cm$
B	$110\ cm^3$	**E**	$8.5\ cm$	**H**	$625\ cm^3$	**K**	$125\ cm^3$
C	$6\ cm$	**F**	$375\ cm^3$	**I**	$96\ cm^3$	**L**	$1125\ cm^3$

1	2	3	4	5	6	7	8	9	10	11	12