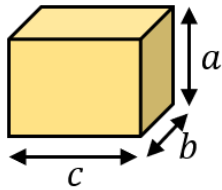
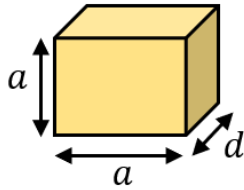


Volume of Cuboids Challenge

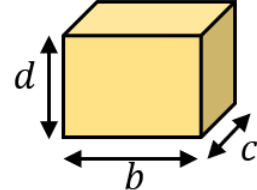
Given the volumes of these six cuboids, can you work out the measurements, a, b, c and d ? Explain how you got your answers.



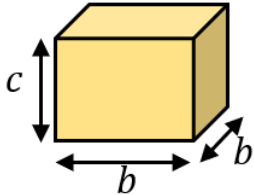
$Volume = 1512 \text{ cm}^3$



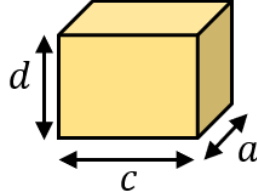
$Volume = 648 \text{ cm}^3$



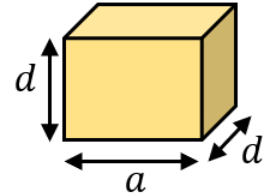
$Volume = 1344 \text{ cm}^3$



$Volume = 2016 \text{ cm}^3$



$Volume = 1008 \text{ cm}^3$



$Volume = 576 \text{ cm}^3$

$a =$

$b =$

$c =$

$d =$

How many more cubes and cuboids can you create using only these four dimensions.
Find the volume of each cube or cuboid you find.

CLUE 1	CLUE 2	CLUE 3
The order of measurements from smallest to biggest is d, a, b, c	A rectangle with width b and length c has an area of 168 cm^2 .	The volume of a cube with side length a is 729 cm^3 .