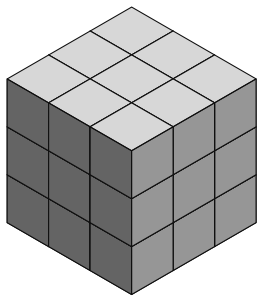


Name: _____ Date: _____

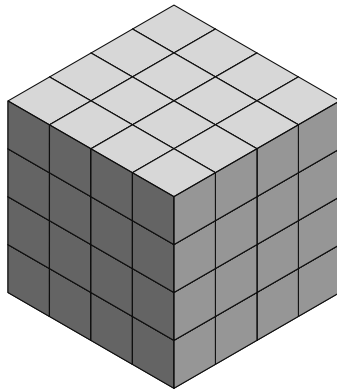
Investigating painted cubes

Calculate and compare the volume of cubes using cubic centimetres (cm³)

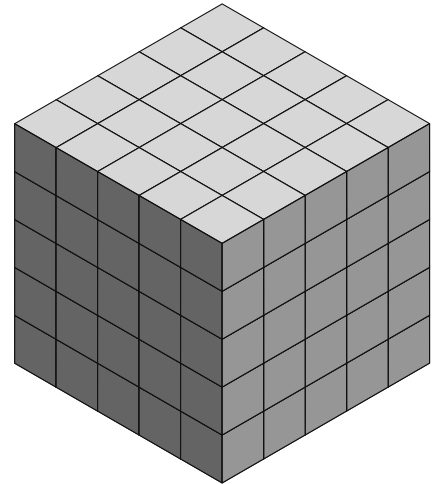
Each cube is built with 1 cm³ cubes.



A



B



C

- Calculate the volume in cubic centimetres (cm³) of cubes A, B and C. Record your answers in the table below.
- The six faces of each cube have been painted blue. For each cube, write in the table below the number of faces of the smaller cubes that have:
 - 3 faces painted blue
 - 2 faces painted blue
 - 1 face painted blue
 - 0 faces painted blue

Cube	Volume (cm ³)	Number of faces painted				Total number of cubes
		3	2	1	0	
A						
B						
C						
D						

- Look for a pattern in each column and use it to find the answers for cube D which has dimensions of 6 cm.