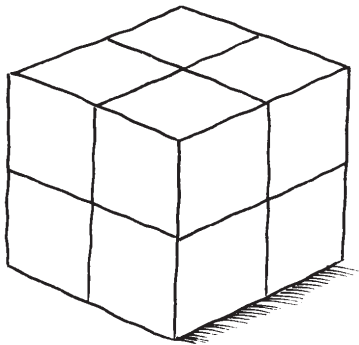


Cubes

Centimetre cubes can be placed together to build larger cubes. Here eight of these cubes have been used to create a $2 \times 2 \times 2$ cube. Each face has an area of 4 cm^2 . The total surface area of the cube is: $6 \times 4 = 24\text{ cm}^2$. Complete the table for different sized cubes.



Cube	Number of cubes	Surface area
$1 \times 1 \times 1$		
$2 \times 2 \times 2$	8	24 cm^2
$3 \times 3 \times 3$		
$4 \times 4 \times 4$		
$5 \times 5 \times 5$		
$6 \times 6 \times 6$		
$10 \times 10 \times 10$		

Describe any patterns.

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