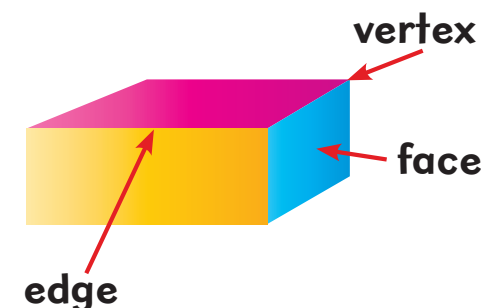


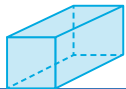
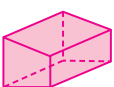
EULER'S RULE - PAGE 1 OF 2

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- Leonard Euler lived in the 18th century. He discovered a rule for the relationship between the number of vertices (V), the number of edges (E), and the number of faces (F) of a 3-D shape.



Make or draw lots of different 3-D shapes. Fill in your copy of the table.

Shape	Name of shape	Number of faces (F)	Number of vertices (V)	Number of edges (E)
	<i>cuboid</i>	<i>6</i>	<i>8</i>	<i>12</i>
				
				
				
				
				

Euler found that by using a combination of adding and/or subtracting, the numbers of vertices, edges and faces always gave the number 2. Use your completed table to help you find Euler's rule.

EULER'S RULE - PAGE 2 OF 2

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Shape	Name of shape	Number of faces (F)	Number of vertices (V)	Number of edges (E)
	<i>cuboid</i>	6	8	12
				
				
				
				
				

Shape	Name of shape	Number of faces (F)	Number of vertices (V)	Number of edges (E)
	<i>cuboid</i>	6	8	12
				
				
				
				
				

Shape	Name of shape	Number of faces (F)	Number of vertices (V)	Number of edges (E)
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