Properties of Shape

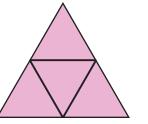
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Key Vocabulary	Regular and Irregular Polygons					
angle	Regular	Irregular				
right angle						
acute						
obtuse						
reflex						
protractor						
horizontal	A polygon is any two-dimensional shape formed with straight lines.					
vertical	In a regular polygon, all the si	ides and anales are equal				
parallel	In an irregular polygon, an the si	c				
perpendicular	not equal.	ues unu ungres ure				
polygon						
regular	Representations					
irregular	Cube models can be drawn	A shape net is a 2D drawin				
two-dimensional	as 2D representations using different elevations.	of an unfolded 3D shape. When you are drawing or				
three-dimensional	Plan	reasoning about shape net				
flat face		think carefully about when the edges of the faces meet				
curved surface		the eages of the faces meet				
edge	Side	\wedge				
curved edge	Elevation Front					
vertex	Elevation Plan	$\langle \rightarrow \rangle$				
apex	Front					
twinkl visit twinkl.com	Elevation Side Elevation	Shape net of a tetrahedron.				

Regular	Irregular			

Representations

A shape net is a 2D drawing of an unfolded 3D shape. When you are drawing or reasoning about shape nets, think carefully about where the edges of the faces meet.



Properties of 3D Shapes

Name	Surfaces		Edges		Vertices	
	Flat	Curved	Flat	Curved	vertices	Picture
sphere	0	1	0	0	0	
cube	6	0	12	0	8	
cuboid	6	0	12	0	8	
cone	1	1	0	1	0	\bigtriangledown
cylinder	2	1	0	2	0	
square-based pyramid	5	0	8	0	5	
tetrahedron	4	0	6	0	4	
triangular prism	5	0	9	0	6	
pentagonal prism	7	0	15	0	10	
hexagonal prism	8	0	18	0	12	
octagonal prism	10	0	24	0	16	
octahedron	8	0	12	0	6	\blacklozenge

A cone has an apex. This is because a vertex is the point where two straight edges meet and a cone has no straight edges.

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