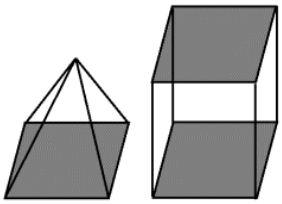
Growing with Mathematics

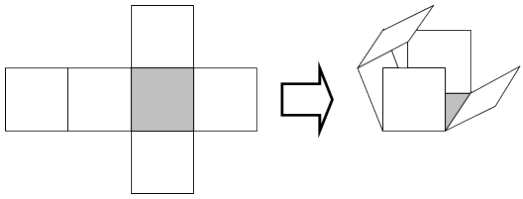
Topic 9 Exploring Shapes and Perimeters



In this topic we look at the properties of solid shapes, in particular, the number of faces, vertices, and edges. Using our *Egyptian Genius* classroom books we will explore the special number patterns found in pyramid shapes.

http://www.learne r.org/interactives/geometry/3d_prisms.html

In another investigation we will use **nets* to construct solid shapes and then calculate the perimeters of faces on both the nets and the solid shapes.

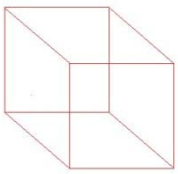


*** *Net* folded into a 3-D shape.**

We will then find perimeters of everyday objects and solve problems with perimeter.

In the final investigation, we will calculate the distances around rectangular prisms in the context of determining which method of wrapping a gift uses the most ribbon.

Sample problem:



Look at the prism.

How many faces, vertices, and edges does this shape have?

Faces _____ vertices _____ edges _____