

**You are swimming with your twin sons one day. You are sitting on the dock and your sons are on opposite ends of the lake. All of a sudden, you hear both boys scream that they are drowning. You only have time to save one of them (i.e. one will die no matter what you do). What would you do?**

## 10.1 solid geometry (3-D)

prism: is formed by 2  $\cong$  polygonal faces called bases connected by faces that are parallelograms

cylinder: formed by 2  $\cong$  circular bases and a curved surface connecting the bases.

pyramid: formed by a polygonal base and triangular faces that meet at a common vertex

cone: formed by a circular base and a curved surface that connects the base to the vertex.

Cube : Six square faces

triangular prism

rectangular prism

octagonal prism

rectangular pyramid

hexagonal pyramid

net

CROSS SECTIONS : shape of the  
base

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