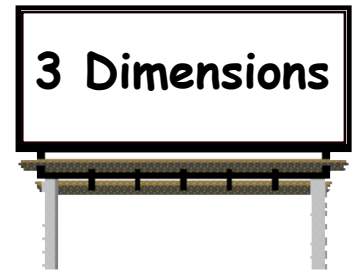
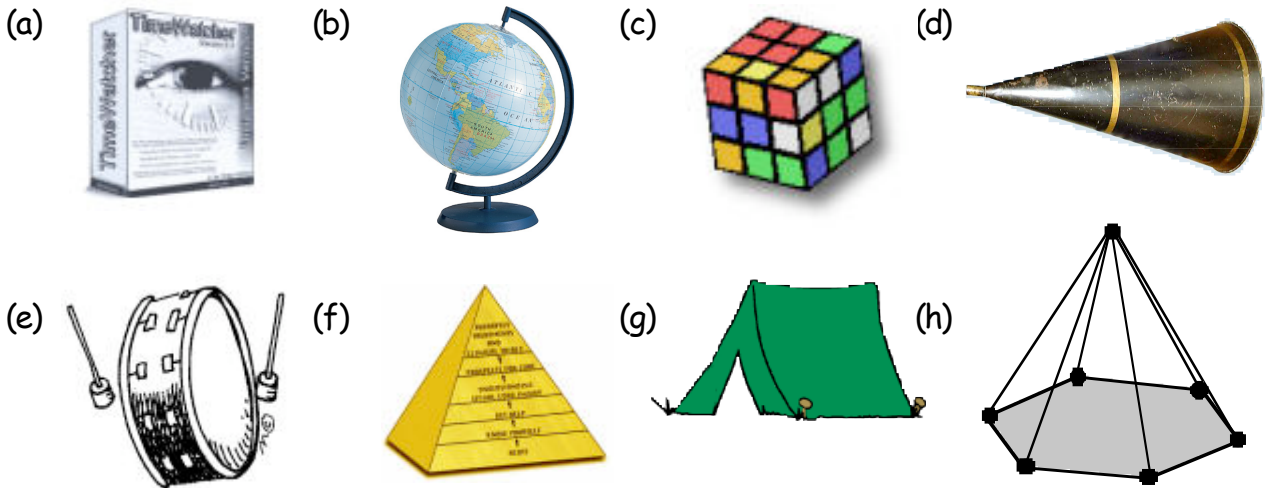


**Chapter 16**

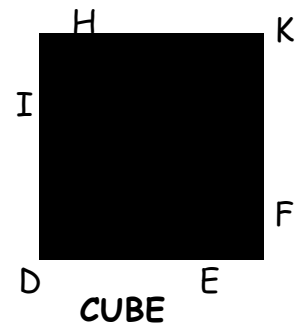


**Exercise 1**

1. Name the mathematical shapes in the following figures :-

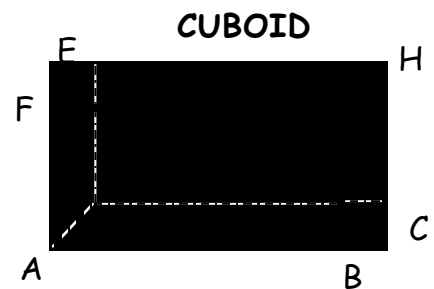


2. Look at this 3-dimensional shape — the **CUBE**.



- (a) How many faces does it have ?
- (b) What shape is each of its faces ?
- (c) How many vertices (corners) does it have ?
- (d) How many edges does it have ?
- (e) Look at the edge, ID.  
Is the edge ID lying "horizontal" or "vertical" ?
- (f) DE is parallel to GF.  
Use 2 letters to name another side which is parallel to IJ.
- (g) Name 3 sides which are parallel to side ID.

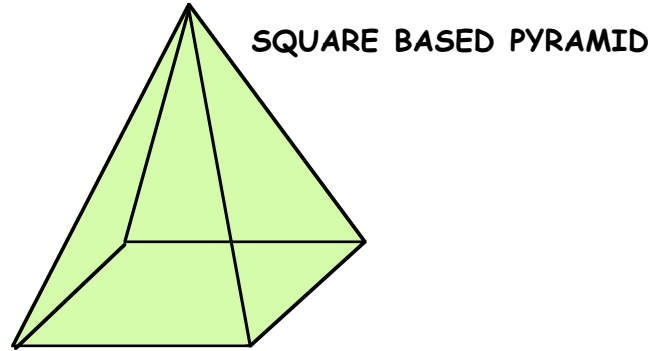
3. Here is a **CUBOID**.



- (a) How many faces does it have ?
- (b) What shape is each face ?
- (c) How many vertices does it have ?
- (d) How many edges does it have ?
- (e) There are 3 sets of four parallel edges. Name them.

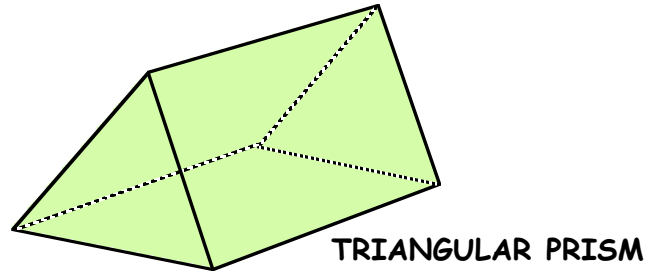
4. For the **SQUARE BASED PYRAMID**.


- (a) How many faces does it have ?
- (b) What shapes are the faces ?
- (c) How many vertices does it have ?
- (d) How many edges does it have ?



5. The **TRIANGULAR PRISM**.

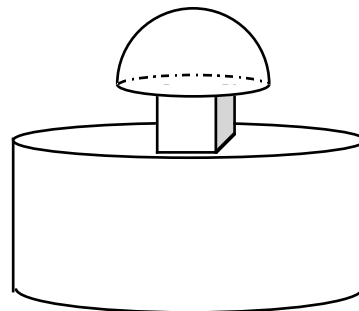
- (a) How many faces does it have ?
- (b) What shapes are the faces ?
- (c) How many vertices does it have ?
- (d) How many edges does it have ?



6.  How many faces, edges and vertices does a **SPHERE** have ?

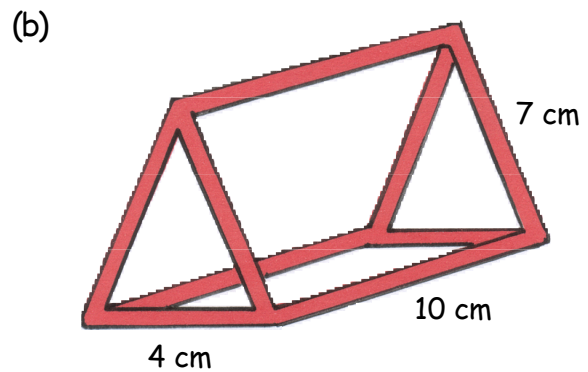
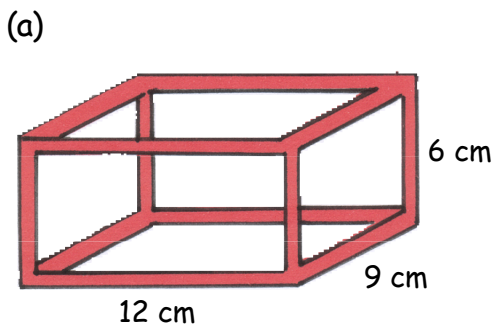


7. Which mathematical shapes can you see here ?

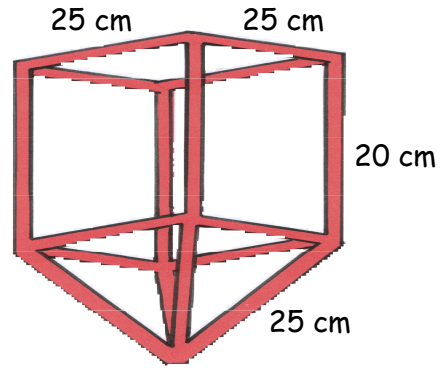


**Exercise 2**

1. What is the **TOTAL LENGTH** of straw required to make each of these shapes ?



2. What is the TOTAL LENGTH of metal needed to make the surrounds of this lantern ?

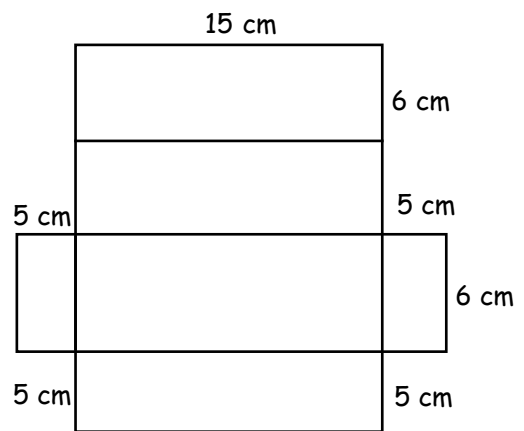


**Exercise 3**

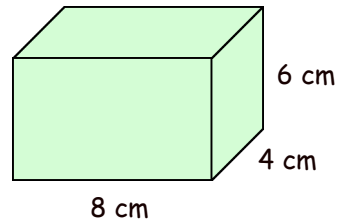
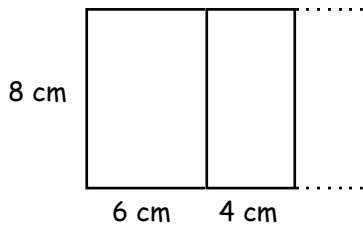
1. Shown opposite is a net of this box.



Make a sketch of the box and fill in the dimensions (length, breadth and height) of the box using the net to help.



2. Part of a net of the cuboid opposite is shown below.



Copy and complete the net showing all 6 faces.

3. (a) Draw the net of this cube.  
 (b) If possible, cut it out and fold it to form the cube.



4. Which of these 2 figures show(s) the net of a cube ?

