Angles

1. Find the value of x, y and z. Give reasons.



2. Prove that ABEH is a trapezium given the information below. Include reasons.



HF and JG are parallel.



4 Find the size of angle x and angle y below. Give reasons.



- 5 Calculate the exterior and interior angles of a regular icosagon.
- 6 The cube, tetrahedron, octahedron, dodecahedron and icosahedron are members of a special set of solids called the platonic solids. The thing that binds them is that they all have regular faces. Calculate the total number of degrees in each solid.

Name of Solid	Number of Faces	Shape of each Face
Tetrahedron	4	
Cube		
Octahedron		
Dodecahedron		Pentagon
Icosahedron	20	Triangle

Information below should help you.

7 Fill in the following table. Can you spot any pattern?

Name of shape	Number of Faces	Number of Edges	Number of Vertices
Tetrahedron			
Pentahedron			
Cube			
Octahedron			