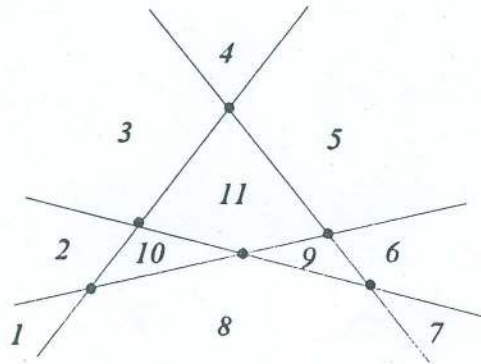


The diagram shows 4 lines which cross over.



They make 6 cross-over points which are marked with dots. They make 11 regions which are marked 1 to 11.

The regions marked 9, 10 and 11 are **closed**. The other regions are open.

1. Draw any number of lines which cross over.

Count and record,

- (i) the number of cross-over points,
- (ii) the number of regions,

and

- (iii) say which regions are closed and which regions are open.

2. **Investigate** the relationships between the number of lines, the maximum number of cross-over points and the maximum number of regions