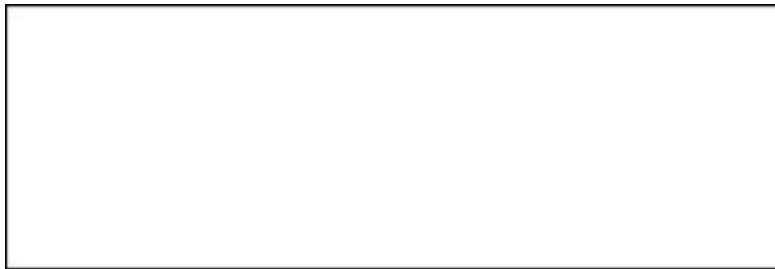
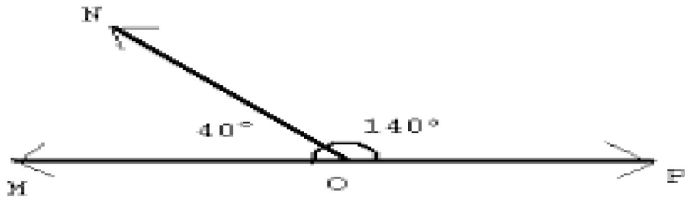
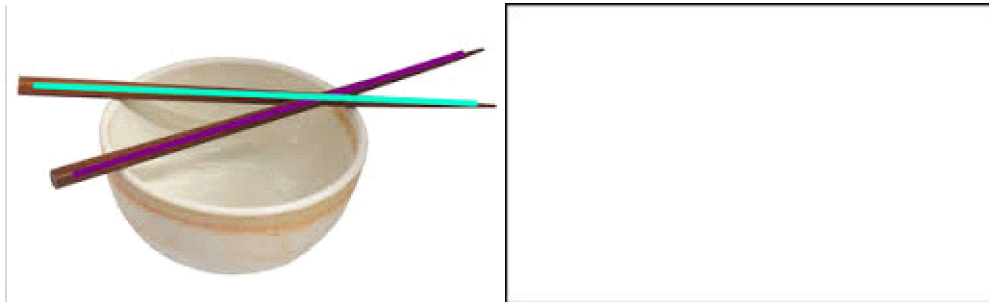


## Linear pair and Vertical angles, with theorems.

Linear pair theorem: linear pairs is if two angles form a linear pair, then they are supplementary.

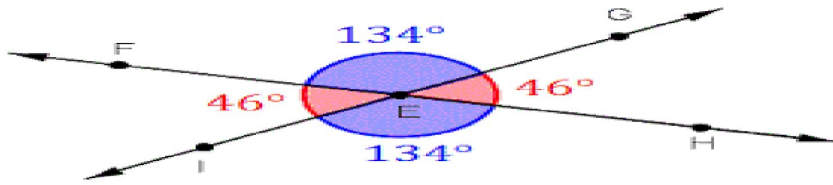


This is a diagram of a linear pair. Angle  $m,o,n$  is 40 degrees and angle  $n,o,p$  is 140 degrees and if you add them you get 180 which means that they are supplementary making them a linear pair.

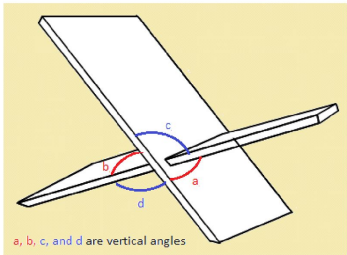
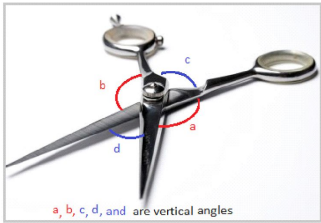


This is a real life example of a linear pair. The blue chopstick intersects the purple one and the angles that it makes on the top left and top right are supplementary which makes them linear pairs.

Vertical angles theorem: Vertical angles are always congruent.



This is a diagram of vertical angles. Angles F,E,G and H,E,I are the same measurement. Angles F,E,I and G,E,H are the same measurement and therefore are congruent making them vertical angles.



This is a real life example of vertical angles. In the picture of the scissors, angles c and d are vertical angles. Angles a and b are across from each other and are the same measurement so therefore they are vertical angles. In the picture of the papers intersecting angles c and d are vertical angles. Angles a and b are across from each other which makes them vertical angle.