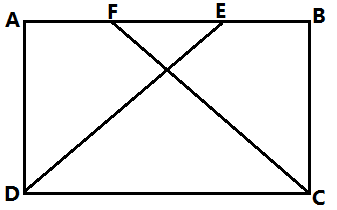
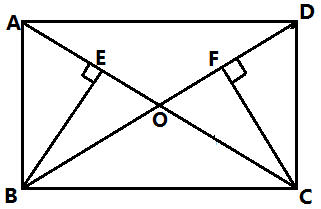
**Bil. Math(G8) worksheet 2: rectangle and rhombus** **Name:** **Score:**

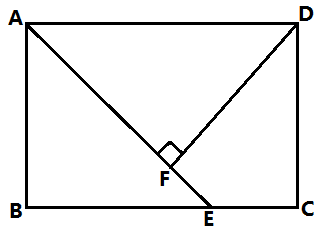
1. As in the graph, ABCD is a rectangle, E,F are two points on AB and AE=BE. Prove DE=CF.



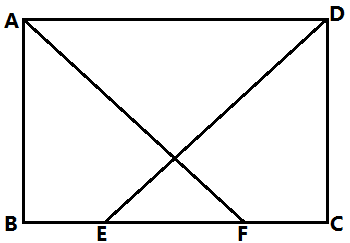
1. In rectangle ABCD, the diagonals AC, BD are intersecting at O, . Prove that BE=CF.



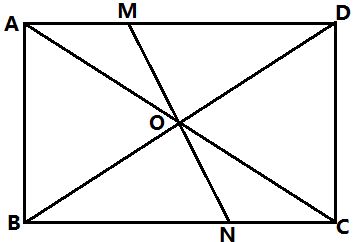
1. ABCD is a rectangle(AD>AB), E is a point on BC, AE=AD, with foot of perpendicular F. Find the relationship between DF and AB.



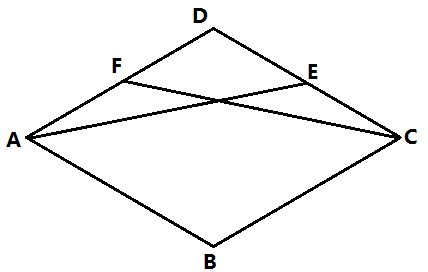
1. As in the graph, in *□*ABCD, E,F are two points on BC, BE=CF, AF=DE. Prove that ABCD is a rectangle.



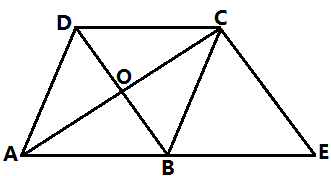
1. In rectangle ABCD, the diagonals AC,BD are intersecting at O, MN is a line passing through O and meets AD at M, meets BC at N. . Prove that MN=BN.



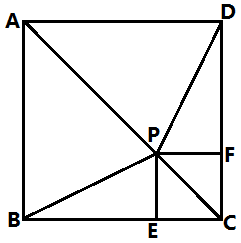
1. ABCD is a rhombus, E,F are middle points of CD, AD. Prove that AE=CF.



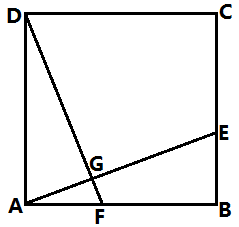
1. ABCD is a rhombus, the length of the two diagonals AC,BD are 8 and 6. Move segment BD horizontally such that points C and D coincide, point B goes to E. Find the area of .



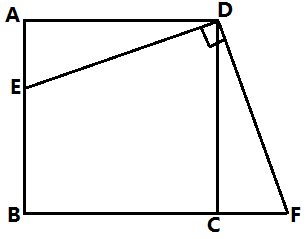
1. ABCD is a square, P is a point on the diagonal AC, . Prove that
2. BP=DP (2) BE=DF



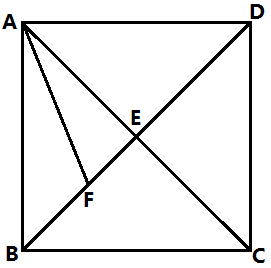
1. ABCD is a square, E is a point on side BC, , prove that BF=CE.



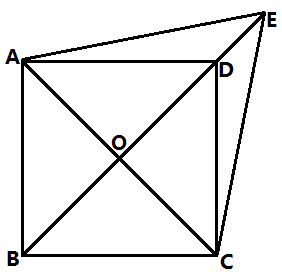
1. ABCD is a square, E is a point on AB, where F is a point on the extension of BC. Prove that DE=DF.



1. ABCD is a square, AC and BD are intersecting at E, AF bisects and intersects with BD at F. Prove that EF+AE=AB.



1. As in the graph, in *□*ABCD, the diagonals AC,BD are intersecting at O, E is a point on the extension of BD such that is an equilateral triangle.



1. prove that ABCD is a rhombus
2. If , prove that ABCD is a square.