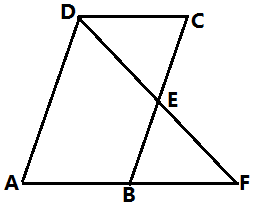
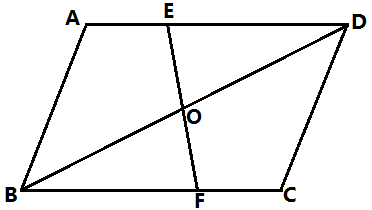
**Bil. Math(G8) worksheet 1: parallelogram** **Name:** **Score:**

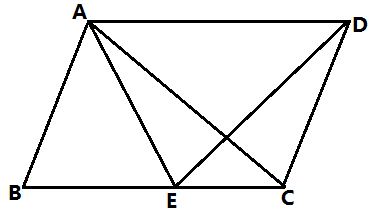
1. As in the graph, in*□*ABCD, E is the middle point of BC, the extension of DE intersects with AB at F. Prove AB=BF.



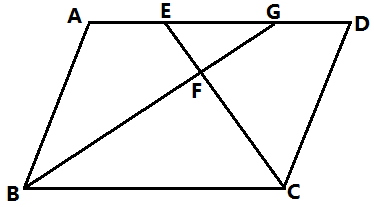
1. As in the graph, in*□*ABCD, O is the middle point of diagonal BD, EF is a line passing through O and meets with BC, AD at F,E. Prove that AE=CF.



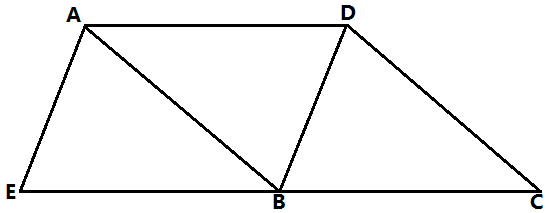
1. As in the graph, in*□*ABCD, E is a point on BC, AB=AE. Prove that .



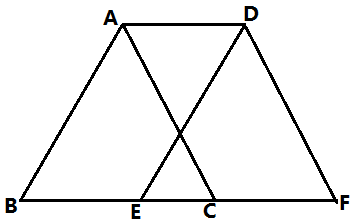
1. As in the graph, in*□*ABCD, the angular bisector of BG intersects with AD at G, the angular bisector CE intersects with AD at E. BG and CE are intersecting at F. Prove that AE=DG.



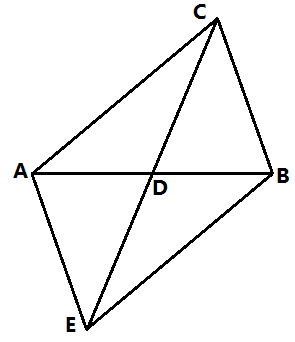
1. As in the graph, ABCD is a parallelogram, , prove that BE=BC.



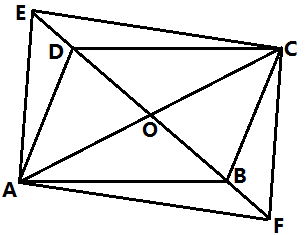
1. As in the graph, points B,E,C,F are on the same line, AB=DE, , BE=CF. Prove:



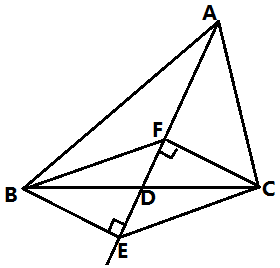
1. ABED is a parallelogram
2. ACFD is a parallelogram
3. As in the graph, extend the median line CD to E such that CD=DE. Join AE,BE. Prove that AEBC is a parallelogram.



1. As in the graph, in *□*ABCD, the diagonals AC, BD are intersecting at O, E,F are two points on BD and DE=BF. Prove that AFCE is a parallelogram.



1. As in the graph, D is the middle point of BC, . Is BECF a parallelogram? Prove your statement.



1. As in the graph, in *□*ABCD, E,F are two points on diagonal BD, BE=DF, G,H are on the extensions of BA and DC, AG=CH, join GE,EH,HF,FG. Prove that GEHF is a parallelogram.

