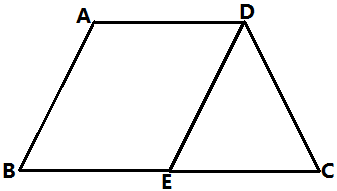
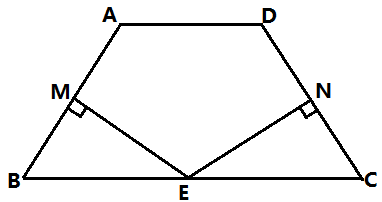
**Bil. Math(G8) worksheet 2: trapezium**  **Name:** **Score:**

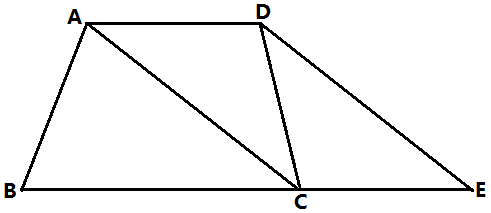
1. As in the graph, in trapezium ABCD, . Prove that is an equilateral triangle.



1. As in trapezium ABCD, , E is the middle point of BC, with foot of perpendicular M, N. Prove that EM=EN.

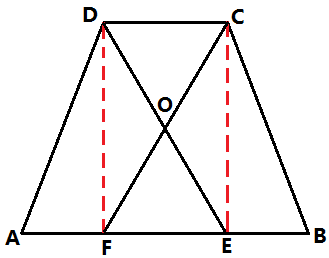


1. As in trapezium ABCD, , CA bisects and intersects with the extension of BC at E, . Prove that AB=DC.

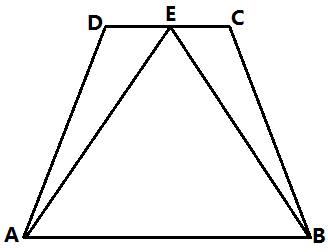


1. In isosceles trapezium ABCD, , E,F are two points on AB, AE=BF, DE and CF are intersecting at O.
2. Prove that OE=OF
3. If EF=CD, join DF, CE, what kind of special quadrilateral

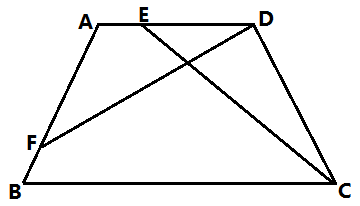
DCEF is ? Prove your statement.



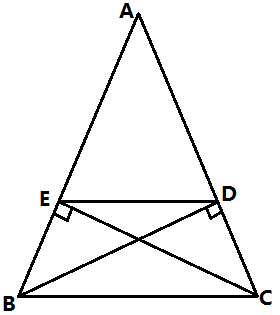
1. In trapezium ABCD, , E is the middle point of DC, if AE=BE, then is ABCD an isosceles trapezium? Prove your statement.



1. ABCD is an isosceles trapezium, is a point on AD, F is a point on AB, AE=BF. Compare the length of CE and DF.



1. As in the graph, in , with foot of perpendicular D,E. Join DE. Prove that BCDE is an isosceles trapezium.



1. ABCD is a rhombus, and intersects with the extension of AB at E. Prove that AECD is an isosceles trapezium.

