

#### Unit 4-Review

- Referring to figure  $K$  on the board (#4 on page 32 of your book) if  $BE=15$ ,  $m\angle BCA=30$ , and  $m\angle DAC=50$ , find as many other angle measures and lengths as you can.
- In the space below draw a regular quadrilateral.
  - What is the name of the quadrilateral you drew? Be as specific as possible.
- In the space below, draw the hierarchy relating the following: Kite, Parallelogram, Rectangle, Rhombus, and Square.
- A-G. For A-G below state whether the statement is True or False and justify your answer.
  - Every square is a rhombus.
  - Every rhombus is a square.
  - Every square is a kite.
  - Every kite is a rhombus.
  - If a quadrilateral has three sides of equal length, then it is a kite.



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- F. A property of every square is a property of every trapezoid.
- G. A property of every trapezoid is a property of every parallelogram.
5. If in an isosceles trapezoid ABCD with bases AB and CD, and  $m\angle A=120$  and  $m\angle D=60$ , what is the measure of angles B and C? (Please draw and label figure below).
6. In the space below, draw and label the properties of a Kite, Isosceles Trapezoid, Trapezoid, Rhombus, Parallelogram, Square, and Rectangle.



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try for a regular heptagon, decagon, hexagon, kite,  
and trapezoid (both Isosceles and regular).