1. Construct a segment congruent to EF using a compass and straightedge. Leave your construction work on the page!
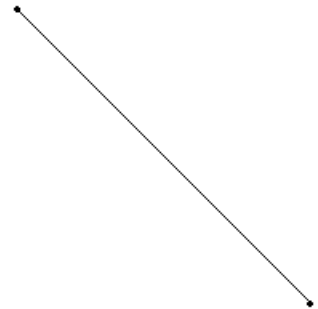
E ————————————————— F

2. If two lines are perpendicular, then any two adjacent angles formed are _____.
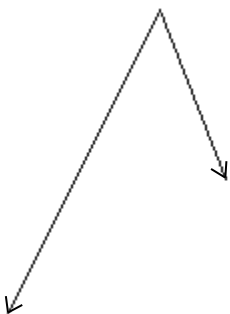
   If a line segment is bisected, then the two segments formed are _____.

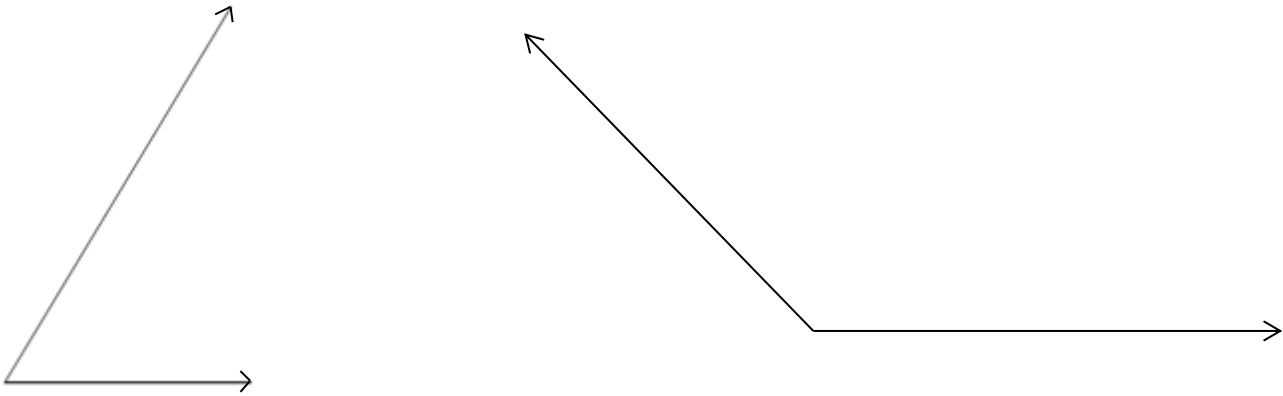   If an angle is bisected, then the two adjacent angles formed are _____.

3. Construct the perpendicular bisector of both segments below.

4. Construct a copy of the angle below.

5. Bisect each angle below.

6. Fill in the following statements:

    a) If lines are parallel → alternate interior angles are _____.

    b) If lines are parallel → same-side exterior angles are _____.

    c) If corresponding angles are _____ → lines are _____.

    d) If a quadrilateral is a parallelogram → opposite sides are _____ and _____.

    e) If a quadrilateral is a rhombus → diagonals _____ and _____.

    f) If one pair of opposite sides is parallel and _____ → a quadrilateral is a _____.

    g) The slopes of parallel lines are _____.

    h) The slopes of perpendicular lines are _____.

    i) CPCTC stands for _____.

    j) A transformation which slides a figure but keeps it the same size is called a _____.

    k) A transformation which flips a figure but keeps it the same size is called a _____.

    l) A transformation which changes the size of a figure is called a _____.

    m) A transformation which turns a figure but keeps it the same size is called a _____.

    n) Which transformations are rigid motions? _____

    o) What does collinear mean? _____

    p) What is true about an isosceles triangle? _____