SLIDING TRIANGLES AND TRANSFERRING POINTS

Part: I
Directions: Use two triangles and/or a compass to find the NUMBERED points which are the solutions to each statement.

1. Draw line A-B. Connect and list the numbered points which will form a line parallel to A-B.

2. Draw line C-D. Connect and list the numbered points which will form a line parallel to C-D.

3. Connect and list the end points of a numbered line which will be perpendicular to answer 1.

4. Connect line segments J S G X. Connect and list the numbered points which are parallel.

5. Connect line segments E F K X. Connect and list the numbered points which are parallel.

6. Draw line 5-12. With your triangles, draw a line perpendicular to 5-12 passing through point 7.

7. Using a compass, transfer points G & K to the numbered side.
   X=point 10 and J=point 6, transfer point G to line 6-10 and label point G-21.
   X=point 10 and E=point 15, transfer point K to line 15-10 and label point K-14.

8. Connect points 9, 13, and 17. Is line 13-17 perpendicular to line 9-13?
   YES  NO

9. What kind of triangle is formed after connecting points 6, 16 and 18?
   Equilateral  Isosceles  Scalene.

10. What kind of triangle is formed after connecting points 11, 12 and 20?
    Equilateral  Isosceles  Scalene.

Part: II
Directions: Using a compass for each measurement comparison, underline either YES or NO for each statement.

1. Is the length of 12-20 equal to 1-4?  YES  NO

2. Is the length of G-F equal to 16-14?  YES  NO

3. Is the length of E-J equal to 5-12?  YES  NO

4. Is the length of J-S equal to 3-15?  YES  NO

5. Is the length of S-2 equal to E-K?  YES  NO