

**SLIDING TRIANGLES  
AND  
TRANSFERRING POINTS**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**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 **8-2** equal to **E-K**?        **YES NO**

