

**SLO: I can write conditional statements in a flowchart format and include reasons for each hypothesis and conclusion.**

☺☺☺☺ Today is a GREAT day to think mathematically! Let's get organized first. ☺☺☺☺

TABLE OF CONTENTS:      **11/14 Flowchart reasoning**

NEW NOTEBOOK PAGE:      **11/14 Flowchart reasoning - Name**  
**SLO: I can write conditional statements in a flowchart format and include reasons for each hypothesis and conclusion.**

Assignment Sheet:      **11/14 CW: Flowchart reasoning Due 11/14**  
**11/14 HW: Wednesday section of HW sheet Due 11/15**

DO NOW SHEET:      **Name, Date, Period, and write the converse, inverse, & contrapositive of the statement:**  
**"If one segment bisect another segment, then the 2 segments intersect"**

LESSON: (Record all work in your notebook.)

 Notes (Copy into your notebook and draw a box around them)

**NO NOTES TODAY. Use your notes from 11/9 to help you.**

**CW: Use the reasons below to complete the flowcharts for the conditional statements on the back of this sheet.**

- |                             |                              |  |
|-----------------------------|------------------------------|--|
| Given                       | Definition of right angle    | Alternate Interior Angles Theorem (& converse) |
| Definition of supplementary | Definition of straight angle | Alternate Exterior Angles Theorem (&converse)  |
| Definition of complementary | Pythagorean Theorem          | Corresponding Angles Postulate (& converse)    |
| Definition of midpoint      | Midpoint formula             | Consecutive Interior Angles Theorem            |
| Definition of bisect        | Vertical Angles Theorem      | (& converse)                                   |
| Definition of congruent     |                              |  |

 **HOMEWORK:** Problems under "Wednesday 11/4" on the homework sheet.

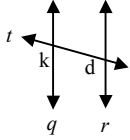
**EXIT**

**BACK OF DO NOW SHEET:** Today my level of understanding is ☺☺☺ because \_\_\_\_\_  
 Complete a flowchart for: If  $\overline{YR}$  bisects  $\angle AYT$ , then \_\_\_\_\_°.



**SLO: I can write conditional statements in a flowchart format and include reasons for each hypothesis and conclusion.**

1. If  $q \parallel r$ , then \_\_\_\_\_.

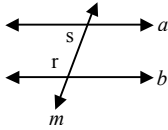


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2. If a right triangle has legs  $x$  and  $y$  and hypotenuse  $z$ , then \_\_\_\_\_.

○  
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□

3. If  $a \parallel b$ , then \_\_\_\_\_.



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4. If  $L$  is the midpoint of  $\overline{SY}$  then \_\_\_\_\_

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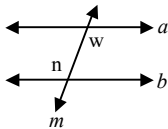
5. If  $\angle m$  is a right angle, then \_\_\_\_\_.

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6. If  $\overline{AC} \cong \overline{ED}$ , then \_\_\_\_\_.

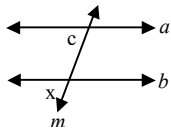
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7. If  $a \parallel b$ , then \_\_\_\_\_.



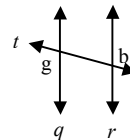
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8. If  $a \parallel b$ , then \_\_\_\_\_.



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9. If  $q \parallel r$ , then \_\_\_\_\_.

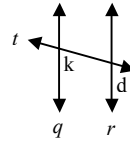


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10. If  $\overline{BL}$  bisects  $\angle UBE$  then \_\_\_\_\_.

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11. If  $\angle k \cong \angle d$ , then \_\_\_\_\_



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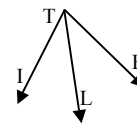
12. If  $\angle t$  is a right angle, then, \_\_\_\_\_.

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13. If  $\overline{WE}$  bisects  $\overline{AR}$  at  $W$ , then \_\_\_\_\_.

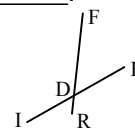
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14. If  $\angle ITL \cong \angle ETL$  then \_\_\_\_\_.



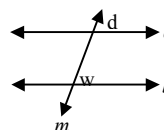
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15. If  $\overline{FR}$  bisects  $\overline{IE}$  at  $D$ , then \_\_\_\_\_.



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□

16. If  $\angle d \cong \angle w$ , then \_\_\_\_\_.



○  
↓  
□