

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Row: \_\_\_\_\_ Period: \_\_\_\_\_

### REASONS REVIEW WORKSHEET

1) Given:  $\angle 3 \cong \angle 5$   
 $\angle 3 \cong \angle 7$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

2) Given:  $\angle 1 \cong \angle 4$   
 $\angle 4 \cong \angle 8$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

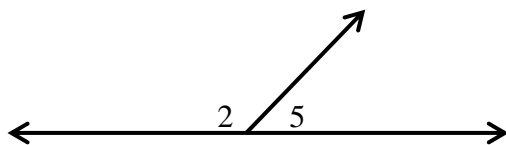
3) Given:  $m\angle 1 + m\angle 2 = 180$   
 $m\angle 3 + m\angle 4 = 180$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

4) Given:  $\angle 2$  and  $\angle 5$  are supplementary

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

5) Given:



What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

6) Given:  $m\angle 5 = m\angle 6$   
 $m\angle 9 = m\angle 2$

Therefore:  $m\angle 5 + m\angle 9 = m\angle 6 + m\angle 2$

Why? \_\_\_\_\_

7) Given:  $\overrightarrow{CD}$  bisects  $\angle XCY$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

8) Given:  $\angle 3 \cong \angle 4$   
 $\angle 4 \cong \angle 5$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

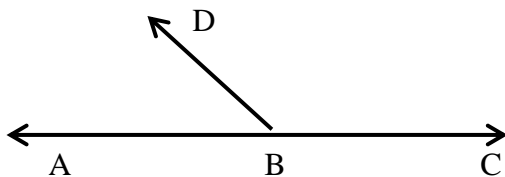
9) Given:  $\angle 4 \cong \angle 3$   
 $\angle 4 \cong \angle 5$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

10) Given:  $m\angle 6 + m\angle 7 = 180$   
 $m\angle 8 + m\angle 9 = 180$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

11) Given:



Therefore  $m\angle ABD + m\angle DBC = m\angle ABC$  Why? \_\_\_\_\_

12) Given:  $\angle 1$  and  $\angle 2$  are complementary.

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

13) Given: M is the midpoint of  $\overline{AB}$

What can you conclude? \_\_\_\_\_ Why? \_\_\_\_\_

14) Given:  $AB = EF$ ;  $BC = FG$

Therefore:  $AB + BC = EF + FG$

Why? \_\_\_\_\_

15) Given:  $\angle ABC \cong \angle XYZ$

Therefore:  $m\angle ABC = m\angle XYZ$

Why? \_\_\_\_\_