

1. Name a plane. \_\_\_\_\_\_\_\_\_\_\_\_

2. Name a segment. \_\_\_\_\_\_\_\_\_\_\_\_

3. Name a line. \_\_\_\_\_\_\_\_\_\_\_\_

4. Name three collinear points. \_\_\_\_\_\_\_\_\_\_\_\_

5. Name three noncollinear points. \_\_\_\_\_\_\_\_\_\_\_\_

6. Name the intersection of a line and a segment not on the line. \_\_\_\_\_\_\_\_\_\_\_\_

7. Name a pair of opposite rays. \_\_\_\_\_\_\_\_\_\_\_\_

**Find each measure**



8. BE \_\_\_\_\_\_\_\_\_\_\_\_ 9. DB \_\_\_\_\_\_\_\_\_\_\_\_ 10. EC\_\_\_\_\_\_\_\_\_\_\_\_

11. A pole-vaulter uses a 15-foot-long pole. She grips the pole so that the segment below her left hand is twice the length of the segment above her left hand. Her right hand grips the pole 1.5 feet above her left hand. How far up the pole is her right hand.



Find the measure of each angle and classify each as acute, right, obtuse, or straight.

12. ∠ YWZ \_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_

13. ∠ XWZ \_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_

14. Ray QT is in the interior of ∠PQR. Find m∠PQT

 if m∠PQR = 25° and m∠RQT = 11°. \_\_\_\_\_\_\_\_\_

15. Find m ∠PQT if m ∠PQR = (10x – 7) °,

 m∠RQT = 5x°, and m∠PQT = (4x + 6)°. \_\_\_\_\_\_\_\_\_\_\_\_

16. Find m∠PQR if QT bisects ∠PQR,

 m∠RQT = (10x – 13) °, and m∠PQT = (6x + 1) °. \_\_\_\_\_\_\_\_\_\_

17. Name the ray that angle PQR and angle SQR share. \_\_\_\_\_\_\_\_\_



18. supplement of angle Z \_\_\_\_\_\_\_

19. complement of angle Y \_\_\_\_\_\_\_

20. ∠DEF and ∠FEG are complementary. m ∠DEF = (3x – 4),

 and m ∠FEG = (5x + 6). Find the measures of both angles.