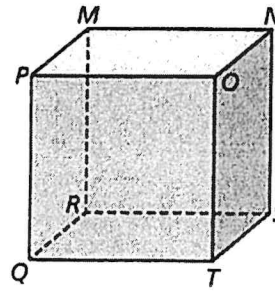


Math 1 – Chapter 8 Team Assessment

Name: _____



1. Name the three planes that intersect at point P .
2. Name the intersection of planes PQO and NMP .
3. Name 3 lines that intersect at point S .
4. Are points P , M , and N collinear?
5. Are points P , M , and N coplanar?
6. Point B is between points A and C on \overline{AC} . Using the information provided, draw a sketch of \overline{AC} with B between A and C . Find the values of x , AB , and BC .

$AC = 95, AB = 15x - 10, BC = 5x + 5$ sketch

7. The endpoints of \overline{JK} are given. Find the coordinates of the midpoint M .
 $J(1, 3)$ and $K(7, 5)$

8. The midpoint M and one endpoint A of \overline{AB} are given. Find the coordinates of the other endpoint.

$A(-3, -2)$ and $M(2, 6)$

1.

2.

3.

4.

5.

6. $x =$

$AB =$

$BC =$

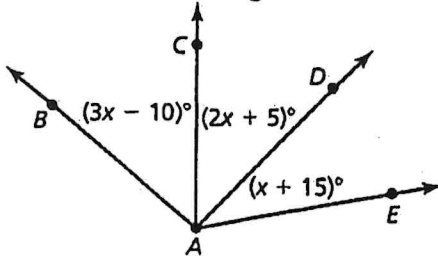
7.

8.

9. Find the distance between the two points. Round your answer to the nearest tenth.

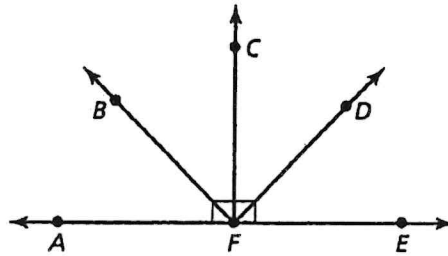
$A(-10, -5), B(9, 14)$

10. Use the diagram to find the $m\angle DAE$, given that $m\angle BAE = 130^\circ$.



11. Use the diagram to identify an angle with the given classification.

- right angle
- obtuse angle
- straight angle
- acute angle

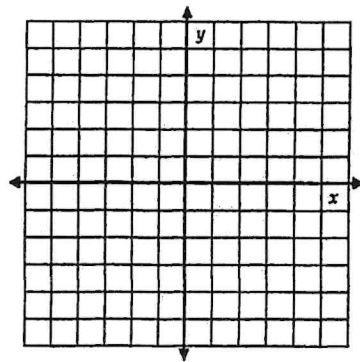


12. $\angle 1$ is a complement of $\angle 2$, and $m\angle 1 = 49^\circ$. Find $m\angle 2$.

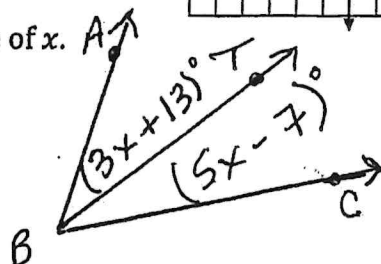
13. $\angle 3$ is a supplement of $\angle 4$, and $m\angle 3 = 119^\circ$. Find $m\angle 4$.

14. Plot the points in the coordinate plane. Find the area of the triangle.

$A(1, 2), B(1, 4), C(6, 2)$



15. \overline{BT} bisects $\angle ABC$. Find the value of x .



9.

10.

$m\angle DAE =$

11.

a.

b.

c.

d.

12.

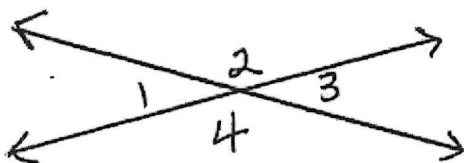
13.

14.

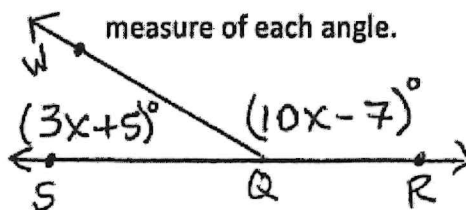
15. $x =$

16. In the diagram below, identify:

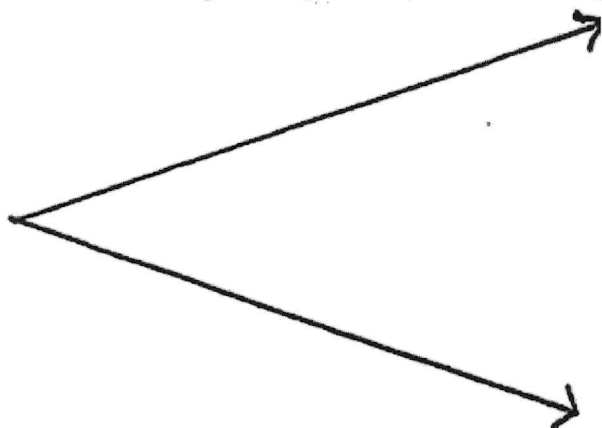
- a linear pair
- a pair of vertical angles



17. Find the value of x and the



18. Bisect the angle using a compass and straight-edge. Do not erase your marks



Solve the following equations:

19. $9(2x + 1) = 11x + 13$

20. $3x + 6y = 12$

$x + 2y = 8$

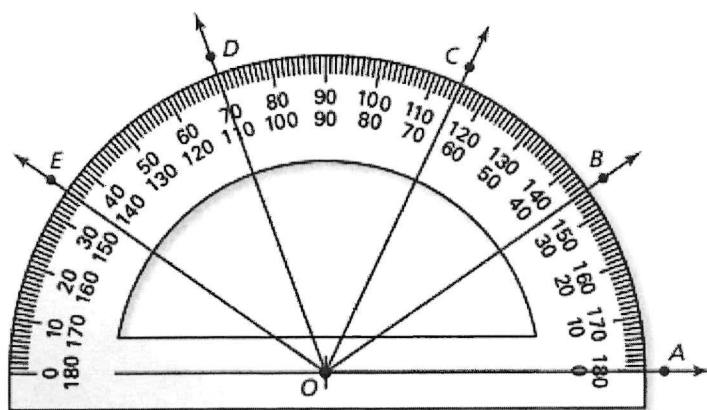
21. $4|x + 3| - 1 = 27$

22. $25^x = 5^{x+3}$

23. In the year 2000, there were 50 crows at SRHS. The population is increasing by 7% each year.

- Write an exponential equation to model the population for t years after 2000.
- Use your function to estimate the population in 2028.

24. Use the compass below to measure each angle. Then classify as acute, right, obtuse, or straight.



$m\angle AOD =$

Classify: _____

$m\angle EOD =$

Classify: _____