

1. Which of the following shows only points AB ?

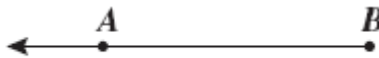
a.



c.



b.



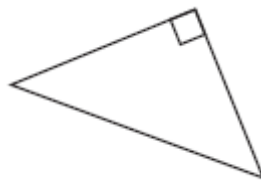
d.



2. Which of the following best describes a point?

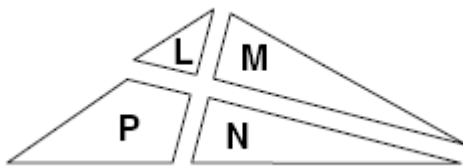
- All the points between two endpoints
- A single, exact location in space without length or width
- All the points extending infinitely in one direction from one endpoint
- A collection of points that extends infinitely in two opposite directions

3. Which two types of angles are used to form this triangle?



- Acute, obtuse
- Acute, right
- Obtuse, acute
- Obtuse, right

4. Which 2 shapes below are congruent?

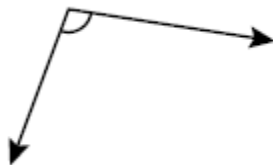


- M and N
- P and N
- N and L
- L and P

5. Which statement about a ray is true?

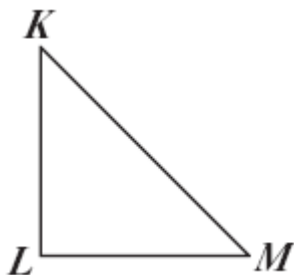
- A ray continues in two directions.
- A ray has two endpoints.
- A ray has one endpoint.
- A ray has no endpoints.

6. The measure of the angle shown is



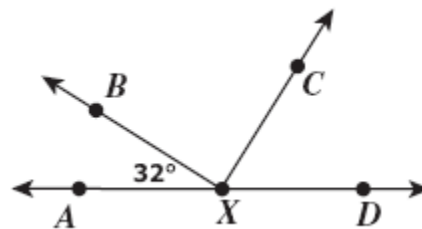
- a. between 0° and 45°
 b. greater than 180°
 c. between 90° and 180°
 d. between 45° and 90°

7. Which is closest to the measure of $\angle M$ in the figure shown?



- a. 60°
 b. 180°
 c. 45°
 d. 90°

8. In this figure, two rays intersect \overleftrightarrow{AD} at point X.
 The measure $\angle AXB$ of is 32° . The figure is not necessarily drawn to scale.



What is the measure of $\angle BXD$?

- a. 148°
 b. 122°
 c. 58°
 d. 90°

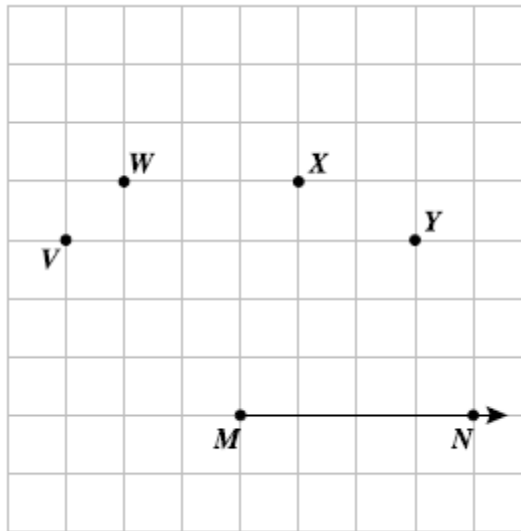
9. Which best describes this figure?



- a. Angle JK
 b. Line Segment JK
 c. Line JK
 d. Ray JK

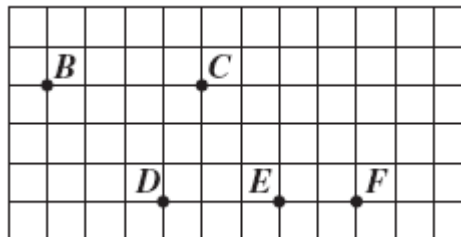
10. Eddie connected points M and N to make one side of an angle.

Which other point should he connect to point M in order to make a 135° angle?



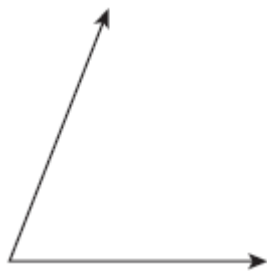
- a. V b. X c. W d. Y
11. Five points are shown on the grid below.

Which points lie on the same line?



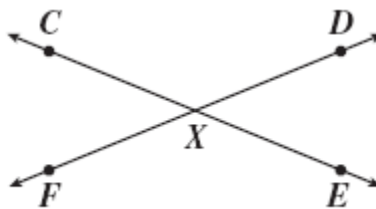
- a. Points B , C , and D c. Points E , F , and C
b. Points D , E , and F d. Points C , D , and E
12. If $\angle QRS$ and $\angle XYZ$ are complementary, which *must* be true?
- a. The sum of the measures of the angles is 90° .
b. The sum of the measures of the angles is 180° .
c. One of the angles can measure between 90° and 180° .
d. Both angles must measure more than 90° .

13. Which is closest to the measure of the angle?



- a. 45° b. 90° c. 25° d. 80°

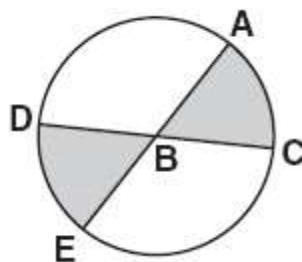
14. If \overleftrightarrow{CE} intersects \overleftrightarrow{DF} at X , which angle must be congruent to $\angle CXD$?



- a. $\angle FXD$ b. $\angle CXF$ c. $\angle DXE$ d. $\angle FXE$

15. Section ABC and section EBD of the flower garden contain roses.
 \overline{AE} and \overline{CD} are straight line segments.

If $\angle ABC$ measures 38° , what is the measure of $\angle EBD$?



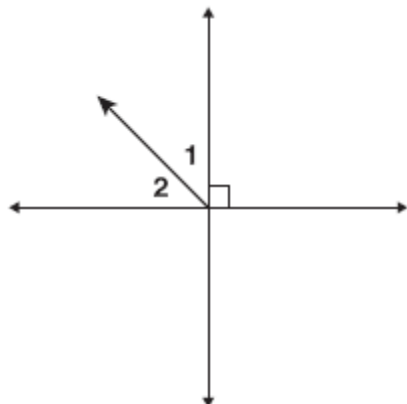
- a. 38° b. 142° c. 52° d. 90°

16. The sides of this polygon are best described as --



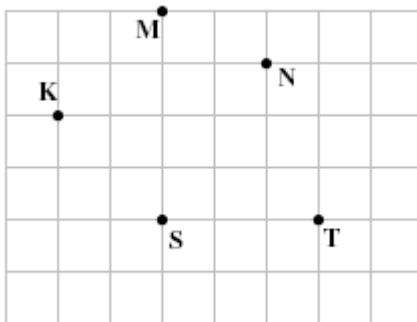
- a. lines b. points c. rays d. line segments

17. In the drawing below, what is $m\angle 1$ if $m\angle 2 = 40^\circ$?



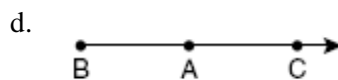
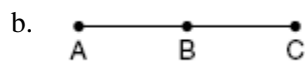
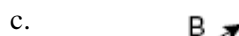
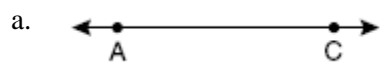
- a. 45° b. 40° c. 50° d. 55°

18. On the grid below, connect point K to point M, then connect point M to point S. What kind of angle has been formed?

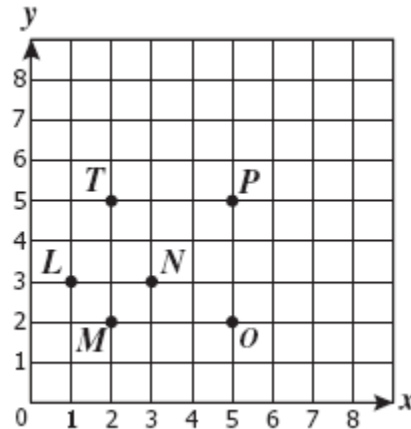


- a. Obtuse b. Acute c. Right d. Straight

19. Which of the following includes ray AB and ray AC?



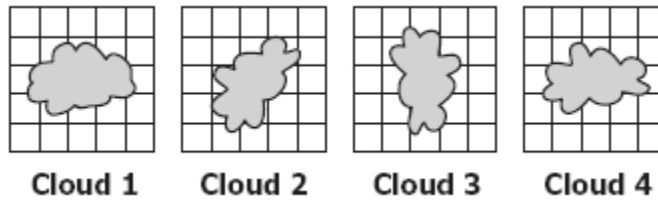
20. The picture shows six points on a grid.



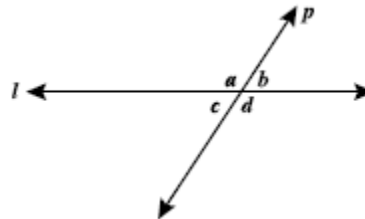
Which three points can be connected to form a right angle?

- a. Points L , P , and T
 b. Points N , O , and P
 c. Points M , O , and P
 d. Points T , L , and N
21. Aaron drew these clouds.

Which cloud does not appear to be congruent to the other three?

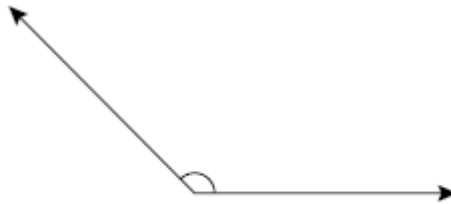


- a. Cloud 1 b. Cloud 4 c. Cloud 3 d. Cloud 2
22. In the diagram below, lines l and p intersect. If the measure of $\angle a$ is 109° , what is the measure of $\angle b$?

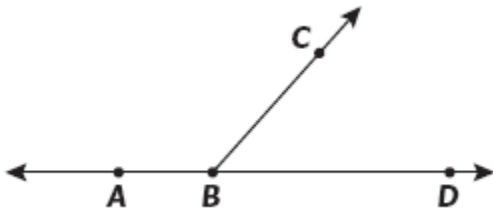


- a. 109° b. 19° c. 71° d. 100°

23. Which of the following describes the angle shown to the right?

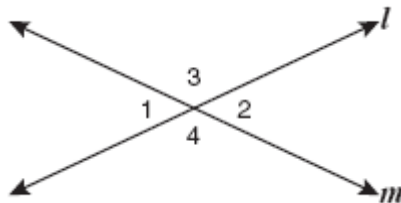


- a. Right b. Straight c. Obtuse d. Acute
24. Which of the following is not pictured in the diagram?



- a. Angle B b. Line segment CD c. Ray BD d. Line AD
25. Lines l and m intersect so that the measure of $\angle 1$ is 50° .

What is the measure of $\angle 2$?



- a. 40° b. 50° c. 100° d. 130°

Student Notes Investigation

- 1) Name the three undefined geometric terms of section 1:
_____, _____, _____.
- 2) The intersection of two lines is which type of these main terms: _____.
- 3) Points on the same plane are called _____.
- 4) The measure of a total distance is the _____ of the measure of its parts.
- 5) Write the midpoint formula (coordinate plane):
- 6) Write the distance formula (coordinate plane):
- 7) A nine-sided figure is called a _____.
- 8) The sum of the lengths of sides of a figure is called its _____.
- 9) Name the three angle classifications:
_____, _____, _____.
- 10) The corner point (or common endpoint) of an angle is called its
_____.
- 11) How many letters does it take to name an angle? _____.
- 12) Complementary angles add to _____.
- 13) Supplementary angles add to _____.
- 14) Two special “pairs” of angles are _____ pairs and _____ angles.
- 15) Name the four “constructions” seen in this chapter:
 - a. _____
 - b. _____
 - c. _____
 - d. _____