Name: Key Day #_____

# Geometry Unit 1 Practice Test Review

**1 What is the definition of the term *line*?**

**A** A line is undefined.

**B** A line is an infinite number of points arranged in a row.

**C** A line is the shortest path between two points.

**D** A line is two rays that share the same vertex and extend in opposite directions.

**2 Which term used in geometry is a defined term?**

**A** Line

**B** Plane

**C** Point

**D** Line Segment

**3 Circle all terms that are undefined terms in Geometry.**

**A** Line

**B** Perpendicular Bisector

**E** Plane

**G** Alternate Interior Angles

**I** Slope

**K** Midpoint

**C** Distance Formula

**D** Line Segment

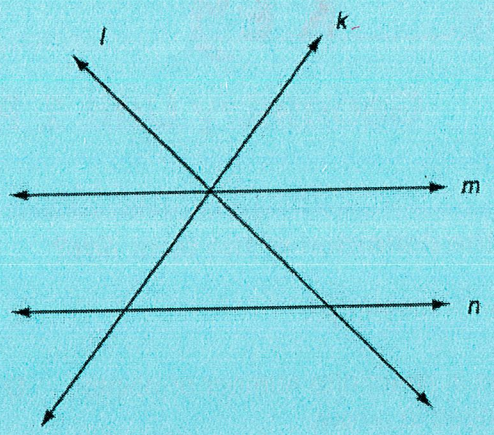
**F** Transversal

**H** Parallel Lines

**J** Point

**L** Segment Ratio

4. **Which pair of lines are most likely to be transversals?**



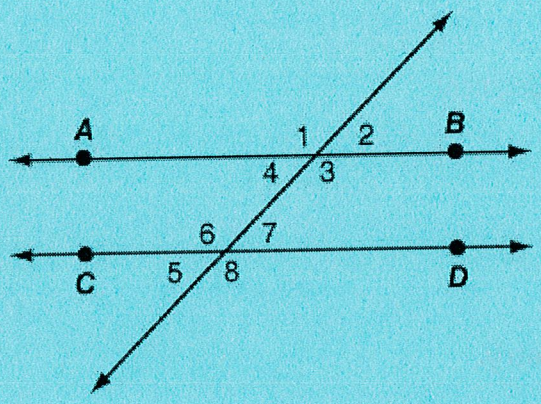

**A** M and N

**B** N and L

**C** K and M

**D** L and K

5. **Name 4 pairs of corresponding angles.**



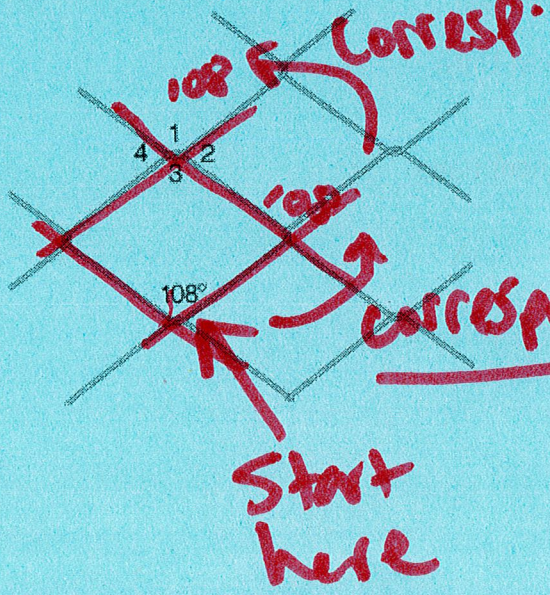

A) 1 & 6

B) 2 & 7

C) 3 & 8

D) 4 & 5

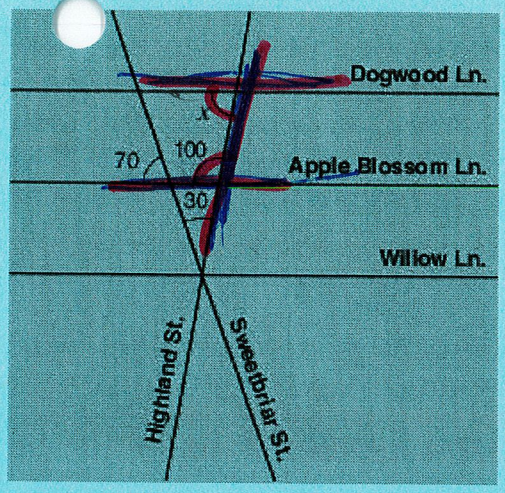
6. A portion of a chain link fence is shown below. Wires pointing in the same direction are parallel.
**What is the measure of angle 2?**




180
−108
72

Dogwood Lane, Apple Blossom Lane, and Willow Lane are parallel, as shown on the map below.

**Glendale Map**



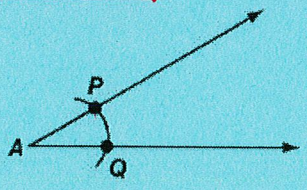

**What is the value of $x$ ?**

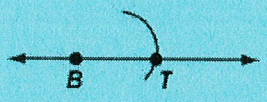
180
-100
80

(Same Side Int.)

**8** Using a compass and straightedge, Rocco is constructing an angle congruent to a given angle.

**Which of the following should be Rocco's next step in his construction?**



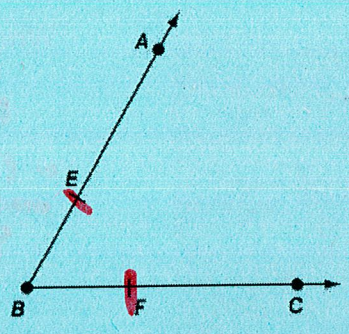

**A** Use the compass to measure the distance from $B$ to $T$

**B** Extend the line through $B$ and $T$ so that its length is equal to the length of the line through $A$ and Q

**C** Use the compass to measure the distance from $Q$ to $P$

**D** Draw a line from $B$ , with the same length as the line through $A$ and $P$ , which intersects the arc

**9** Robin is trying to bisect $\angle ABC$ . She begins her construction by creating the arcs at point $E$ and point $F$ .




**What should Robin do next to complete her construction?**

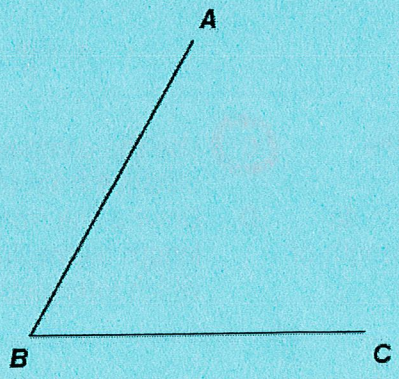
**A** She should draw a segment connecting points $A$ and $C$ .

**B** She should draw a segment from point $E$ to point $C$ and from point $F$ to point $A$ .

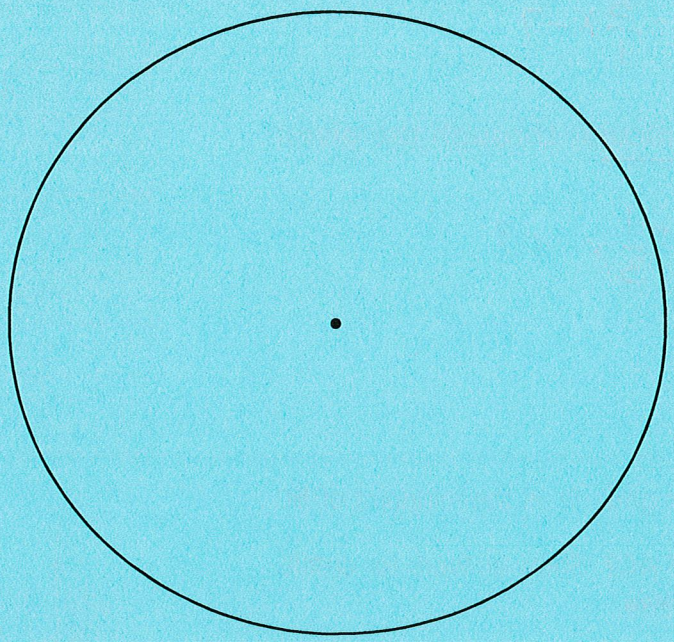
**C** She should draw a ray from point $B$ so that it is halfway between points $E$ and $F$ .

**D** She should use points $E$ and $F$ as centers and draw a pair of arcs, keeping the same compass setting for both arcs.

**10.** Using a compass and a straightedge, draw the bisector of $\angle ABC$ . Show your marks from the compass.



**11.** Inscribe a hexagon.

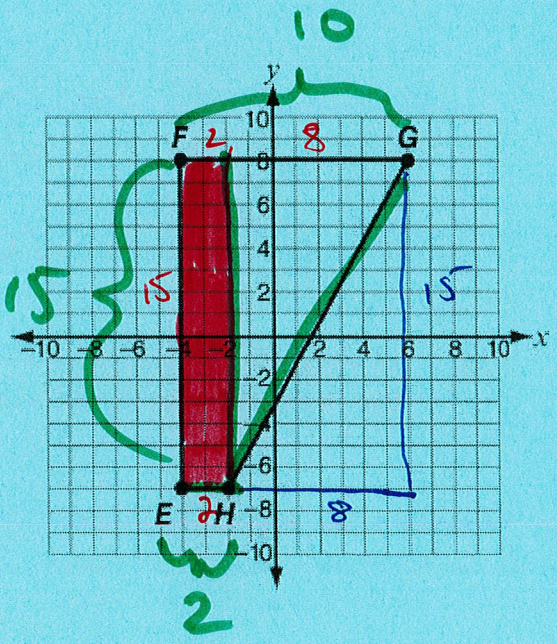


**12.** **What is the area of the figure on the right?**

□ = 2 × 15 = 30

△ = $\frac{15 \times 8}{2}$ = 60

90




**13.** **What is the perimeter of the figure on the right?**

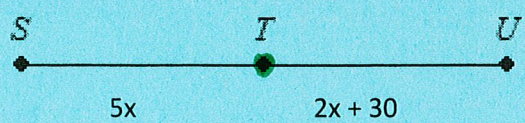
15 ✓
10 ✓
2 ✓
17
44

} straight lines

$\sqrt{8^2+15^2}$ = → diagonal

**14.**

If $T$ is the midpoint of $\overline{SU}$, find the values of $x$ and $ST$. The diagram is not to scale.




$5x = 2x + 30$

$-2x \quad -2x$

$3x = 30$

$x = 10$

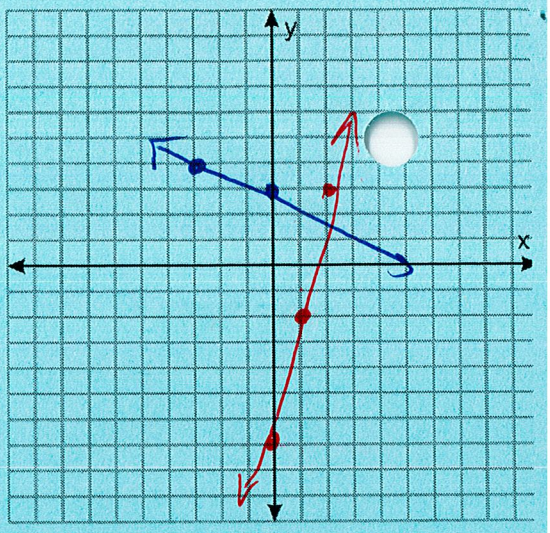
ST

5(10)

= 50

**15. What is the line parallel through the given the point?**

y = 5x + 10 (1, -2) $y = \frac{5}{1}x - 7$




**16. What is the line perpendicular through the given point?**

y = 3x + 5 (-3,4) $y = \frac{-1}{3}x + 3$

**17.** Given: ΔABC is shown on this grid. D is the midpoint of BC .

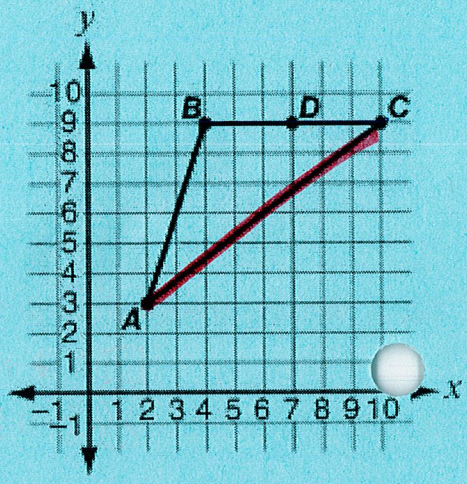
**What is the midpoint of AC?** Show all work for credit.

A (2, 3)

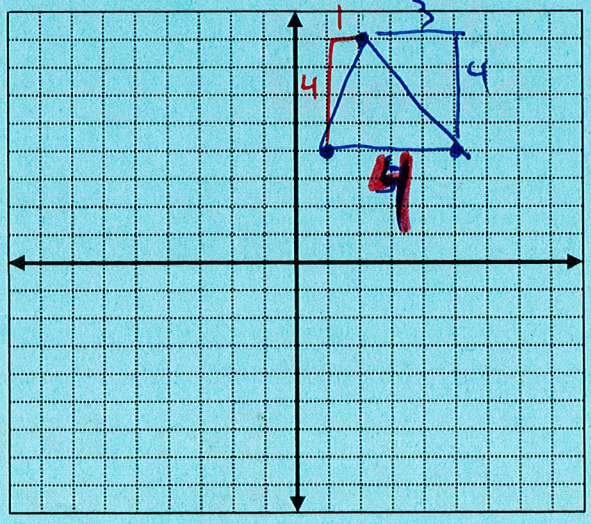
C (10, 9)

$\frac{12}{2}, \frac{12}{2}$

(6, 6)




**18.** In a triangle with coordinates (1, 4), (2, 8), and (5, 4), **what would be the perimeter rounded to the nearest tenth (1 decimal place)?** A blank graph is provided if needed.




4

$\sqrt{1^2+4^2} = 4.1$

$\sqrt{3^2+4^2} = 5$

13.1