

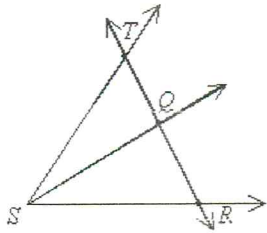
Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Ess. Standards  
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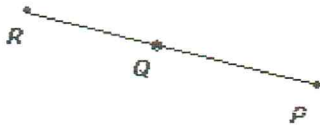
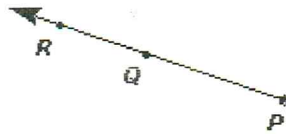
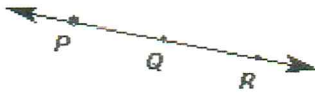
# Geometry - Unit 1 Test Review

\* G.CO.1 - vocab.  
\* G.GPE.4 - Distance  
Midpoint  
Formulas

\* 1. Name three points that are collinear.



\* 2.  $\overrightarrow{PR}$  is represented by which sketch?



\* 3. The notation for the segment P and Q is \_\_\_\_\_.

$\overleftrightarrow{PQ}$

$\overline{PQ}$

$\overrightarrow{QP}$

PQ

\* 4. If  $RS = 44$  and  $QS = 68$ , find  $QR$ .



Name: \_\_\_\_\_

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- ★ 5. Let  $B$  be between  $C$  and  $D$ . Use the Segment Addition Postulate to solve for  $w$ .
- $CB = 4w - 4$   
 $BD = 2w - 8$   
 $CD = 24$

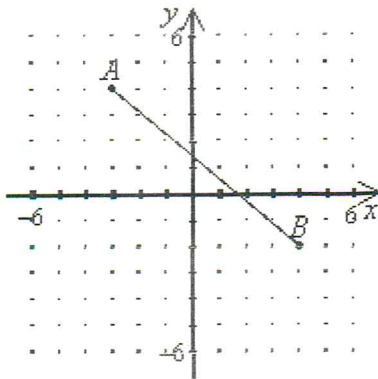
6.  $R$ ,  $S$ , and  $T$  are collinear.  $S$  is between  $R$  and  $T$ .  $RS = 2w + 1$ ,  $ST = w - 1$ , and  $RT = 18$ . Use the Segment Addition Postulate to solve for  $w$ . Then determine the length of  $RS$ .

- ★ 7. If  $AB = 17$  and  $AC = 32$ , find the length of  $BC$ .



- ★ 8. Find the distance between the points  $(-4, 6)$  and  $(-1, 5)$ .

- ★ 9. The distance between points  $A$  and  $B$  is \_\_\_\_\_.



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10. Find the midpoint of the segment with endpoints  $(-2, 4)$  and  $(-4, 3)$ .

$\left(-3, \frac{7}{2}\right)$

$(-6, -7)$

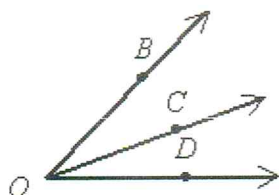
$\left(1, \frac{1}{2}\right)$

$\left(1, -\frac{1}{2}\right)$

11. Which angle measures approximately  $112^\circ$ ?



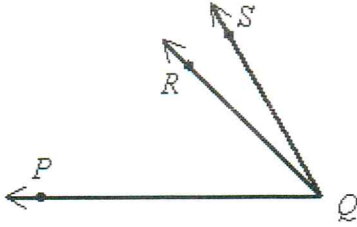
12. If  $m\angle BOD = 46^\circ$  and  $m\angle BOC = 26^\circ$ , then what is the measure of  $\angle COD$ ?



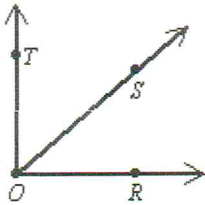
Name: \_\_\_\_\_

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13.  $m\angle SQR = (2x + 6)^\circ$  and  $m\angle PQR = (10x - 5)^\circ$  and  $m\angle SQP = 61^\circ$ .  
Find  $m\angle SQR$  and  $m\angle PQR$ .



14. If angle  $TOS$  is acute and angle  $TOR$  is right, then angle  $ROS$  is what kind of angle?



obtuse

right

straight

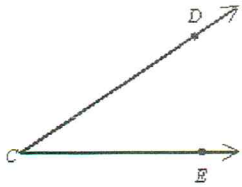
acute

15. If an obtuse angle is bisected, the resulting angles are \_\_\_\_\_.

- A. always acute  
B. right angles

- C. never congruent  
D. always obtuse

16. Which does *not* name the angle below?



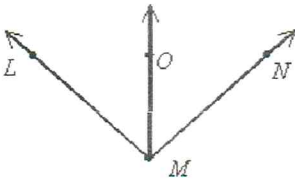
$\angle DCE$

$\angle CDE$

$\angle ECD$

$\angle C$

17. In the figure (not drawn to scale),  $\overrightarrow{MO}$  bisects  $\angle LMN$ ,  $m\angle LMO = (6x - 40)^\circ$ , and  $m\angle NMO = (x + 65)^\circ$ . Solve for  $x$  and find  $m\angle LMN$ .



5,  $10^\circ$

21,  $251^\circ$

5,  $61^\circ$

21,  $172^\circ$

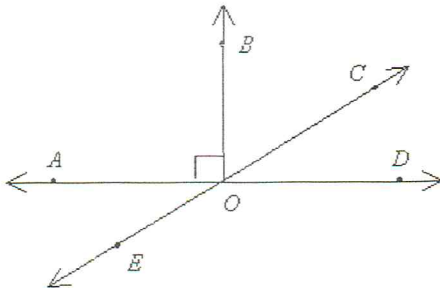
18. The nonshared sides of two adjacent angles form a pair of opposite rays. The angles are \_\_\_\_\_.



acute  
complementary

a linear pair  
vertical angles

19. Name an angle supplementary to  $\angle DOE$ .



$\angle DOE$   
 $\angle DOB$

$\angle DOE$  or  $\angle AOC$   
 $\angle DOC$  or  $\angle AOE$

Complete the conditional statement to make a true statement.

20. If  $\angle R$  and  $\angle S$  are complementary and  $m\angle R = 15^\circ$ , then

$m\angle S = 75^\circ$

$m\angle S = 165^\circ$

$m\angle S = 195^\circ$

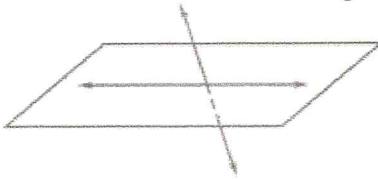
$m\angle S = 105^\circ$

21. Which statement(s) may be true about the two lines shown in the diagram?

I. The lines are coplanar.

II. The lines are parallel.

III. The lines intersect in one point.



I only

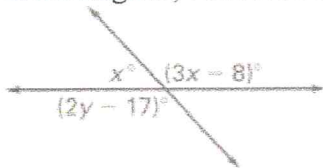
I and II only

II and III only

I and III only

22. What is the distance between point  $A(-3, 2)$  and point  $B(5, -1)$ ?

23. In the diagram, what are the values of  $x$  and  $y$ ?



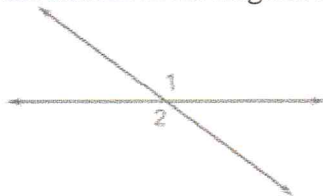
$x = 47, y = 75$

$x = 47, y = 74$

$x = 75, y = 47$

$x = 71, y = 51$

24.  $\angle 1$  and  $\angle 2$  in the diagram are \_\_\_\_\_?



vertical angles  
complementary

a linear pair  
supplementary

25. Given points  $G(2, 10)$  and  $H(-6, -10)$  find the coordinates of the midpoint of  $\overline{GH}$ .

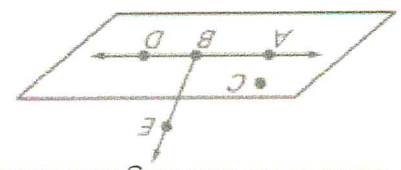
$(-2, 10)$

$(-4, 0)$

$(-2, 0)$

$(8, 20)$

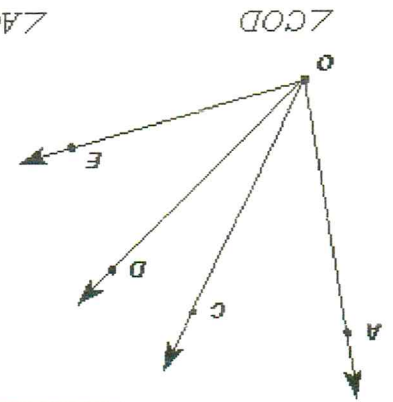
26. Which of the following statements is false? \*



A, B, C, and D are coplanar.  
A, B, and D are collinear.

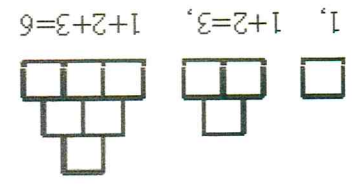
$\overrightarrow{BE}$  and  $\overrightarrow{BA}$  are opposite rays.  
Answers G and H only

27. C is in the interior of \_\_\_\_\_ \*



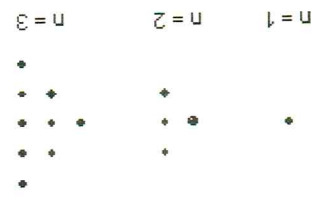
$\angle COD$        $\angle AOB$        $\angle AOD$        $\angle BOC$

28. If the pattern indicated below is continued, what would be the total number of cubes in the 6th stage of the pattern?

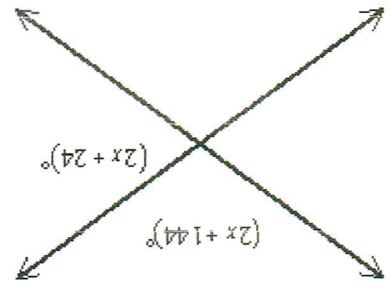


6      21      15      36

29. The first three members of a sequence are shown. How many dots are in the fourth member of the sequence?

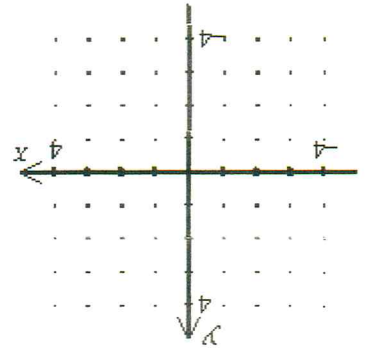


30      16      14      7



32. Solve for x:

- (-1, 3)
- (0, 0)
- (1, 5)
- (0, 2)



31.  $A = (1, 3), B = (-1, 1), C = (0, -2)$ . A point interior to  $\angle ABC$  is \_\_\_\_\_