

# 1 Chapter 1 Vocabulary

## Review

acute angle	<del>cone</del>	line segment	<del>pyramid</del>
adjacent angles	convex	midpoint	ray
angle	congruent	obtuse angle	right angle
angle bisector	construction	opposite rays	segment bisector
<del>area</del>	coplanar	perpendicular	sides
<del>bases</del>	<del>cylinder</del>	<del>perimeter</del>	space
between	degree	point	<del>sphere</del>
<del>circumference</del>	<del>edges</del>	polygon	supplementary angles
collinear	<del>face</del>	<del>polyhedron</del>	undefined term
complementary angles	line	plane	vertex
concave	linear pair	<del>prism</del>	vertical angles

Check Quizlet for flashcards :)

State whether each sentence is *true* or *false*. If *false*, replace the underlined word or phrase to make a true sentence.

- Two lines are perpendicular if they intersect to form a right angle. 1. \_\_\_\_\_
- Two angles are congruent if their measures have a sum of  $90^\circ$ . 2. \_\_\_\_\_
- If two rays intersect at a common endpoint, a plane is formed. 3. \_\_\_\_\_

Choose the correct term to complete the sentence.

- Vertical angles are two (*nonadjacent* or *collinear*) angles formed by two intersecting lines. 4. \_\_\_\_\_
- The (*midpoint* or *angle bisector*) divides a line segment into two congruent segments. 5. \_\_\_\_\_

Choose from the terms above to complete each sentence.

- A(n) \_\_\_\_\_? divides an angle into two congruent angles. 6. \_\_\_\_\_
- Two angles are \_\_\_\_\_? if their measures have a sum of 180. 7. \_\_\_\_\_
- Two angles that lie in the same plane are called \_\_\_\_\_? if they share a common side and a common vertex. 8. \_\_\_\_\_

Define each term in your own words.

- collinear 9. \_\_\_\_\_
- vertical angles 10. \_\_\_\_\_

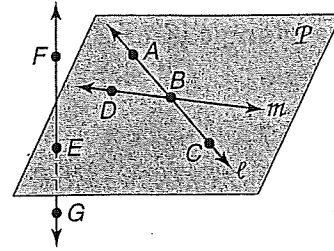
# 1 Chapter 1 Test, Form 1

Write the letter for the correct answer in the blank at the right of each question.

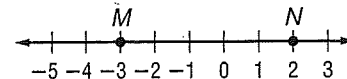
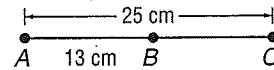
1. Name the geometric shape modeled by a pinhole in a wall. 1. \_\_\_\_\_  
 A. line segment    B. plane    C. line    D. point

For Exercises 2–4, use the figure at the right.

2. Which is another name for line  $\ell$ ? 2. \_\_\_\_\_  
 F.  $\overleftrightarrow{AB}$     H.  $\overleftrightarrow{BD}$   
 G.  $C$     J.  $\mathcal{P}$
3. Name the intersection of lines  $\ell$  and  $m$ . 3. \_\_\_\_\_  
 A.  $A$     C.  $C$   
 B.  $B$     D.  $\mathcal{P}$
4. Name three points coplanar with point  $A$ . 4. \_\_\_\_\_  
 F.  $B, C, F$     G.  $B, C, E$     H.  $E, F, G$     J.  $B, D, G$

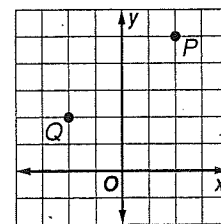


7. Find the length of  $\overline{BC}$ . 7. \_\_\_\_\_  
 A. 12 cm    C. 25 cm  
 B. 13 cm    D. 38 cm
8. Use the number line to find  $MN$ . 8. \_\_\_\_\_  
 F. -5    H. 5  
 G. 1    J. 10



For Questions 9 and 10, use the figure given at the right.

9. Find the distance between points  $P$  and  $Q$ . 9. \_\_\_\_\_  
 A. 5    C. 9  
 B. 7    D. 25
10. Fiona jogs every morning on a track that can be represented as a straight line. Her starting coordinate is  $(-2, 5)$  and the finishing coordinate is  $(4, -5)$ . What are the coordinates of the point where Karen has run half the distance? 10. \_\_\_\_\_  
 F.  $(-3, -5)$     G.  $(1, 0)$     H.  $(2, 0)$     J.  $(6, -2)$

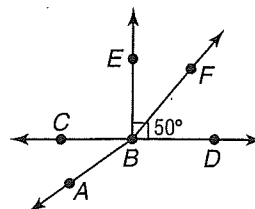


# 1 Chapter 1 Test, Form 1 (continued)

For Exercises 11–13, use the figure at the right.

11. Which point is the vertex of all the angles in this figure?

- A. A                      C. B  
B. C                      D. E



11. \_\_\_\_\_

12. What type of angle is  $\angle ABC$ ?

- F. acute angle      G. right angle      H. obtuse angle      J. straight angle

12. \_\_\_\_\_

13. Which is true?

- A.  $m\angle EBF = 140$     B.  $m\angle EBF = 90$     C.  $m\angle EBF = 50$     D.  $m\angle EBF = 40$

13. \_\_\_\_\_

14. The base of a prism has a perimeter of 12 cm and a height of 2 cm. The area of its base is  $5 \text{ cm}^2$ . What is the surface area of the prism?

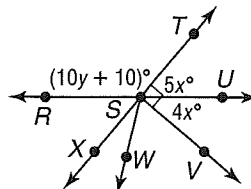
- F.  $23 \text{ cm}^2$       G.  $34 \text{ cm}^2$       H.  $50.5 \text{ cm}^2$       J.  $60 \text{ cm}^2$

14. \_\_\_\_\_

For Exercises 15–17, use the figure at the right.

15. Which pair of angles are vertical angles?

- A.  $\angle RST, \angle TSU$     C.  $\angle RSX, \angle TSU$   
B.  $\angle TSU, \angle USV$     D.  $\angle RSX, \angle XSW$



15. \_\_\_\_\_

16. Which angle is supplementary to  $\angle USV$ ?

- F.  $\angle TSU$               G.  $\angle VSW$               H.  $\angle RSV$               J.  $\angle WSR$

16. \_\_\_\_\_

17. Find  $x$  and  $y$ .

- A.  $x = 10, y = 12$     B.  $x = 20, y = 7$     C.  $x = 10, y = 8$     D.  $x = 50, y = 40$

17. \_\_\_\_\_