## 1 Chapter Test

## Differentiated Instruction Resources

- [3 Ch. 1 Test
- L2 Adapted Ch. 1 Test
- L4 Ch. 1 Alternative Assessment
- LI Spanish Ch. 1 Test
- L4 Spanish Ch. 1 Alternative Assessment
- L2 Informal Geometry Ch. 1

Test, Forms D \& E

- ExamView CD-ROM
- Ch. 1 Pre-Made Test
- Make your own Ch. 1 test
- Online Chapter 1 Test at www.PHSchool.com

Chapter Test
Chapter 1


## Chapter Test

1. Div. each preceding term by $-2 ; \frac{1}{2},-\frac{1}{4}$
2. Add 2 to the preceding term; 10, 12

Describe each pattern and find the next two terms of each sequence. 1-3. See margin.

1. $8,-4,2,-1, \ldots$
2. $0,2,4,6,8, \ldots$
3. 


4. Open-Ended Write two different sequences whose first three terms are 1,2,4. Describe each pattern. See margin.
5. Draw a net for a cube. See margin.

## Use the figure for Exercises 6-9.


6. Name three collinear points. $A, B, C$
7. Name four coplanar points. Sample: $A, B, C, D$
8. What is the intersection of $\overleftrightarrow{A C}$ and plane $Q$ ? B
9. How many planes contain each line and each point?
a. $\overleftrightarrow{B D}$ and point $A 1$
b. $\overleftrightarrow{A B}$ and point $C$
c. $\overleftrightarrow{B E}$ and point $C 1$
d. $\overleftrightarrow{B D}$ and point $E 1$

9b. infinitely many
10. Track The running track is a rectangle with a half circle on each end. If $\overline{F I}$ and $\overline{G H}$ are diameters, find the area inside the track to the nearest tenth.


Complete with always, sometimes, or never to make each statement true.
11. $\overrightarrow{L J}$ and $\overrightarrow{T J}$ are ? opposite rays. never
12. Four points are $\qquad$ coplanar. sometimes
13. Skew lines are $\qquad$ coplanar. never
14. Two segments that lie in parallel lines are ? parallel. always
15. The intersection of two planes is ? a point. never16. Algebra $J K=48$. Find the value of $x$. 10

$$
J \quad \stackrel{H}{4 x-15} \stackrel{\text { • }}{ } \quad \stackrel{K}{2 x+3}
$$17. Algebra $M(x, y)$ is the midpoint of $\overline{C D}$ with endpoints $C(5,9)$ and $D(17,29)$.

a. Find the values of $x$ and $y$. $(11,19)$
b. Show $M C=M D . M C=M D=\sqrt{136}$
18. To the nearest tenth, find the perimeter of $\triangle A B C$ with vertices $A(-2,-2), B(0,5)$, and $C(3,-1)$. 19.1 units

For the given dimensions, find the area of each figure to the nearest hundredth.
19. rectangle
20. square

$$
\begin{array}{rlr}
b & =4 \mathrm{~m} & s=3.5 \mathrm{in} . \\
h & =2 \mathrm{~cm} & 12.25 \mathrm{in}^{2}
\end{array}
$$

21. circle
$d=9 \mathrm{~cm}$
$63.62 \mathrm{~cm}^{2}$

Algebra Use the figure for Exercises 22-24. In
Exercises 22 and 23, find the value of each variable.

22. $m \angle B D K=3 x+4, m \angle J D R=5 x-107$
23. $m \angle B D J=7 y+2, m \angle J D R=2 y+79$
24. Name two complementary angles.

Answers may vary. Sample: $\angle B D J, \angle J D R$
25. Writing Why is it useful to have more than one way of naming an angle? See margin, p. 75.
26. Draw an obtuse $\angle A B C$. Use a compass and straightedge to bisect the angle. See margin, p. 75.

Use the figure to complete Exercises 27-30.
27. $\overline{V W}$ is the ? of $\overline{A Y} . \perp$ bisector $V$.
28. If $E Y=3.5$, then $A Y=$ ?. 7
29. $\frac{1}{2} ?=A E \quad A Y$
30. ? is the midpoint of ? $E ; \overline{A Y}$
31. Carpeting How many square yards of carpet are needed to carpet a room that is 15 ft long and 20 ft wide? $33 \frac{1}{3} \mathrm{yd}^{2}$
3. Rotate the U clockwise one-quarter turn. Alphabet is backwards;

$$
(\mathbb{N}
$$

4. Answers may vary. Sample:

1, 2, 4, 8, 16, 32, . .
1, 2, 4, 7, 11, 16, . . In the first seq. double each term. In the second seq., add consecutive counting numbers.


