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Chapter 3 Test, Form 1

Write the letter for the correct answer in the blank at the right of each question. $\overset{C}{\sim}$

For Questions 1–3, refer to the figure at the right.					
 1. Identify the plane parallel to plane BC A plane ABE B plane ABF 		1			
2. Identify a segment parallel to \overline{CD} . F \overline{AB} G \overline{AE}	H \overline{BC} J \overline{EF}	2			
3. Which segment is skew to \overline{DE} ? A \overline{AB} B \overline{BC}	$\mathbf{C} \ \overline{BD}$ $\mathbf{D} \ \overline{CD}$	3			
For Questions 4–7, refer to the figure at the right. Identify the special name for each angle pair. $b \leftarrow \frac{5}{2} \begin{pmatrix} 6 \\ 6 \end{pmatrix}$					
4. $\angle 1$ and $\angle 8$ F alternate exterior	H consecutive interior				
G alternate interior	J corresponding	4			
	o corresponding	1			
 5. ∠3 and ∠7 A alternate exterior B alternate interior 	C consecutive interior D corresponding	5			
6. Given $a \parallel b$ and $m \angle 2 = 65$, find $m \angle 6$. F 25 G 65	H 115 J 140	6			
7. Given $a \parallel b, m \angle 3 = 5x + 10$, and $m \angle 5$ A 110 B 70	= 3x + 10, find the value of <i>x</i> . C 20 D 2.5	7			
For Questions 8–10, refer to the figure at the right.					
8. Which angle relationship justifies that $\mathbf{F} \ \angle 1 \cong \angle 7$ $\mathbf{G} \ \angle 3 \cong \angle 4$	$ \begin{array}{c} \mathbf{t} \ \ell \ \parallel m? \\ \mathbf{H} \ \angle 4 \cong \angle 5 \\ \mathbf{J} \ \angle 6 \cong \angle 8 \end{array} $	8			
9. If $m \angle 2 = 6x + 8$ and $m \angle 6 = 8x - 6$, find the value of x so					
that $\ell \parallel m$. A -7 B 1	C 7 D 14	9			
 10. Given m∠6 + m∠7 = 180, which postulate or theorem justifies that l m? F Consecutive Interior Angles Theorem G Corresponding Angles Postulate 					

- ${\bf H}~$ Alternate Exterior Angles Theorem
- ${\bf J}$ Alternate Interior Angles Theorem

Assessment

Glencoe Geometry

10. ____

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Chapter 3 Test, Form 1 (continued)

For Questions 11-12, determine the slope of the line that contains the given points.

11. $A(0, 5), B(5, 0)$ A -1	B 0	C 1	D 5	11
12. $F(-2, -4), G(1, 2)$ F -2) G $-\frac{1}{2}$	$\mathbf{H} \frac{1}{2}$	J 2	12
 13. Given A(1, 7), B(8) to CD? A D(0, 17) 	B, 4), and <i>C</i> (3, 10), B <i>D</i> (6, 17)	which coordinate which $D(10, 7)$	will make \overline{AB} paralleright $\mathbf{D} D(10, 13)$	el 13
14. Given $A(-1, 4)$, B perpendicular to \overline{C} F $D(0, 5)$	\overline{CD} ?), which coordinate $\mathbf{H} D(5, -2)$		14
15. Which is an equate A $y = -3x + 4$	0		ntercept $-3?$ D $y = 4x - \frac{3}{4}$	15
16. Which is an equat F $y - 1 = 2(x - x)$ G $y + 1 = 2(x + x)$	3)	h slope 2 that pass H $y - 3 = 2(x)$ J $y - 3 = (x)$: - 1)	16
		s the health club.	Which equation 20	17
 18. What is the distant F -3 G 1 H 4 J 5 		_		18
For Questions 19–20, find the distance between each				
19. $y = 4$ and $y = 6$ A 2	B 4	C 6	D 10	19
20. $y = x$ and $y = x + \mathbf{F} + $	2 G 1.5	$\mathbf{H} \sqrt{2}$	J 2	20
Bonus What is the s	lope of a line perpe	endicular to $y = -2$	2? B: _	