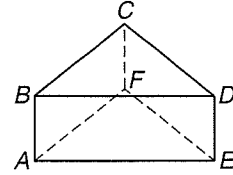


3 Chapter 3 Test, Form 1

EXTRA PRACTICE

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

For Questions 1-3, refer to the figure at the right.



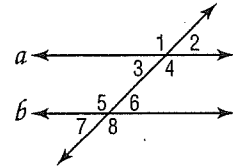
- Identify the plane parallel to plane BCD .
 - A. plane ABE
 - B. plane ABF
 - C. plane AEF
 - D. plane DEF
- Identify a segment parallel to \overline{CD} .
 - F. \overline{AB}
 - G. \overline{AE}
 - H. \overline{BC}
 - J. \overline{EF}
- Which segment is skew to \overline{DE} ?
 - A. \overline{AB}
 - B. \overline{BC}
 - C. \overline{BD}
 - D. \overline{CD}

1. _____

2. _____

3. _____

For Questions 4-7, refer to the figure at the right.



Identify the special name for each angle pair.

- $\angle 1$ and $\angle 8$
 - F. alternate exterior
 - G. alternate interior
 - H. consecutive interior
 - J. corresponding
- $\angle 3$ and $\angle 7$
 - A. alternate exterior
 - B. alternate interior
 - C. consecutive interior
 - D. corresponding
- Given $a \parallel b$ and $m\angle 2 = 65$, find $m\angle 6$.
 - F. 25
 - G. 65
 - H. 115
 - J. 140
- Given $a \parallel b$ and $m\angle 3 = 5x + 10$ and $m\angle 5 = 3x + 10$, find x .
 - A. 110
 - B. 70
 - C. 20
 - D. 2.5

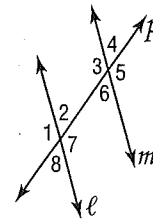
4. _____

5. _____

6. _____

7. _____

For Questions 8-10, refer to the figure at the right.



- Which angle relationship justifies that $\ell \parallel m$?
 - F. $\angle 1 \cong \angle 7$
 - G. $\angle 3 \cong \angle 4$
 - H. $\angle 4 \cong \angle 5$
 - J. $\angle 6 \cong \angle 8$
- If $m\angle 2 = 6x + 8$ and $m\angle 6 = 8x - 6$, find x so that $\ell \parallel m$.
 - A. -7
 - B. 1
 - C. 7
 - D. 14
- Given $m\angle 6 + m\angle 7 = 180$, which postulate or theorem justifies that $\ell \parallel m$?
 - F. Consecutive Interior Angles Theorem
 - G. Corresponding Angles Postulate
 - H. Alternate Exterior Angles Theorem
 - J. Alternate Interior Angles Theorem

8. _____

9. _____

10. _____

3 Chapter 3 Test, Form 1 *(continued)*

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

11. $A(0, 5), B(5, 0)$ 11. _____
 A. -1 B. 0 C. 1 D. 5

12. $F(-2, -4), G(1, 2)$ 12. _____
 F. -2 G. $-\frac{1}{2}$ H. $\frac{1}{2}$ J. 2

13. What is the slope of a line parallel to the line containing $(-6, 1)$ and $(3, -2)$? 13. _____
 A. -3 B. $-\frac{1}{3}$ C. $\frac{1}{3}$ D. 3

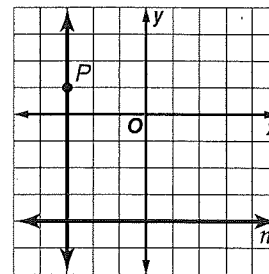
14. Find the slope of the line perpendicular to the line containing $(0, 0)$ and $(-1, 4)$. 14. _____
 F. $-\frac{1}{4}$ G. -4 H. $\frac{1}{4}$ J. 4

~~15. Which is an equation of the line with slope 4 and a y -intercept of 3 ? 15. _____
 A. ~~$y = 3x + 4$~~ B. ~~$y = 4x + \frac{3}{4}$~~ C. ~~$y = 4x - 3$~~ D. ~~$y = 4x + \frac{3}{4}$~~~~

~~16. Which is an equation of the line with slope 2 that contains $(0, 1)$? 16. _____
 F. ~~$y = 1 - 2(x - 3)$~~ H. ~~$y - 3 = 2(x - 1)$~~
 G. ~~$y + 1 = 2(x + 3)$~~ J. ~~$y - 3 = (x - 2)$~~~~

~~17. Yoga lessons cost $\$5$ per lesson if Kyle enrolls in the health club for a fee of $\$120$ per year. Suppose Kyle joins the health club. Which equation represents the yearly cost C of t yoga lessons? 17. _____
 A. ~~$C = 5t$~~ G. ~~$C = 5t - 120$~~
 B. ~~$C = 5t + 120$~~ D. ~~$C = 5(t + 120)$~~~~

18. What is the distance from P to n shown in the figure?
 F. -3
 G. 1
 H. 4
 J. 5



For Questions 19–20, find the distance between each pair of parallel lines.

19. $y = 4$ and $y = 6$ 19. _____
 A. 2 B. 4 C. 6 D. 10

20. $y = x$ and $y = x + 2$ 20. _____
 F. 1 G. 1.5 H. $\sqrt{2}$ J. 2

Bonus What is the slope of a line perpendicular to $y = -2$? B: _____

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