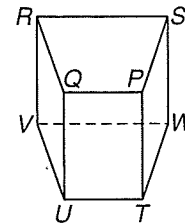


3 Chapter 3 Test, Form 2A

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

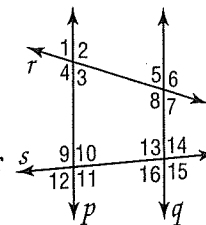
For Questions 1 and 2, refer to the figure at the right.



1. Identify the plane parallel to plane PQT .
 - A. plane PQS
 - C. plane RSV
 - B. plane PTS
 - D. plane TUW
2. Which segment is skew to \overline{RV} ?
 - F. \overline{RS}
 - G. \overline{RQ}
 - H. \overline{SW}
 - J. \overline{SP}

1. _____
2. _____

For Questions 3–10, refer to the figure at the right.



Identify the special name for each angle pair.

3. $\angle 3$ and $\angle 10$
 - A. alternate exterior
 - C. consecutive interior
 - B. alternate interior
 - D. corresponding
4. $\angle 9$ and $\angle 13$
 - F. alternate exterior
 - H. consecutive interior
 - G. alternate interior
 - J. corresponding
5. Given $p \parallel q$ and $m\angle 3 = 75$, find $m\angle 5$.
 - A. 15
 - B. 75
 - C. 105
 - D. 120
6. Given $p \parallel q$ and $m\angle 10 = 3x - 7$ and $m\angle 13 = 4x - 9$, find x .
 - F. -2
 - G. 2
 - H. 16
 - J. 28
7. Given $\angle 1 \cong \angle 5$, which postulate or theorem justifies that $p \parallel q$?
 - A. Corresponding Angles Postulate
 - B. Consecutive Interior Angles Theorem
 - C. Alternate Exterior Angles Theorem
 - D. Alternate Interior Angles Theorem
8. If $\angle 12 \cong \angle 14$, which postulate or theorem justifies that $p \parallel q$?
 - F. Corresponding Angles Postulate
 - G. Consecutive Interior Angles Theorem
 - H. Alternate Exterior Angles Theorem
 - J. Alternate Interior Angles Theorem
9. If $p \parallel q$ by the Consecutive Interior Angles Theorem, which angle pair must be supplementary?
 - A. $\angle 3$ and $\angle 10$
 - B. $\angle 3$ and $\angle 8$
 - C. $\angle 8$ and $\angle 13$
 - D. $\angle 15$ and $\angle 16$
10. If $m\angle 4 = 7x - 20$ and $m\angle 8 = 5x + 18$, find x so that $p \parallel q$.
 - F. -19
 - G. -1
 - H. 1
 - J. 19

3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Assessment

3 Chapter 3 Test, Form 2A *(continued)*



Determine the slope of the line that contains the given points.

11. $P(-6, 3), Q(12, 9)$ 11. _____

- A. -3 B. $-\frac{1}{3}$ C. $\frac{1}{3}$ D. 3

12. $M(-8, 14), N(2, -11)$ 12. _____

- F. $-\frac{5}{2}$ G. $-\frac{2}{5}$ H. $\frac{2}{5}$ J. $\frac{5}{2}$

13. What is the slope of a line parallel to the line containing $(-6, -6)$ and $(9, 14)$? 13. _____

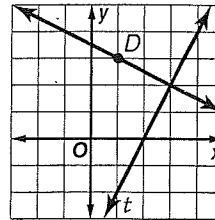
- A. $\frac{3}{4}$ B. $\frac{4}{3}$ C. $\frac{10}{3}$ D. undefined

14. Find the slope of a line perpendicular to the line containing $(-8, 10)$ and $(0, 9)$. 14. _____

- F. -8 G. $-\frac{1}{8}$ H. $\frac{1}{8}$ J. 8

What is the distance from D to t shown in the figure?

15. A. 2
 B. 3
 C. 5
 D. $\sqrt{5}$



15. _____

16. What is the distance between parallel lines whose equations are $y = 2x + 7$ and $y = 2x - 3$? 16. _____

- F. $\sqrt{2}$ G. $\sqrt{5}$ H. $2\sqrt{5}$ J. $4\sqrt{2}$

