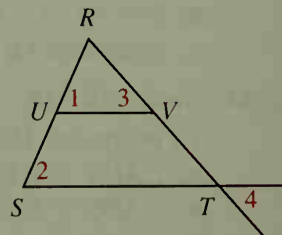


Chapter 5

Indicate the best answer by writing the appropriate letter.

- Both pairs of opposite sides of a quadrilateral are parallel. Which special kind of quadrilateral *must* it be?
a. parallelogram b. rectangle c. rhombus d. trapezoid
- The diagonals of a certain quadrilateral are congruent. Which term could *not* be used to describe the quadrilateral?
a. isosceles trapezoid b. rectangle
c. rhombus d. parallelogram with a 60° angle
- M is the midpoint of hypotenuse \overline{TK} of right $\triangle TAK$. $AM = 13$. What is the length of \overline{TK} ?
a. 26 b. $19\frac{1}{2}$ c. 13 d. none of these
- In $\square WXYZ$, $WX = 10$. What does ZW equal?
a. 16 b. YZ c. WY d. none of these
- A diagonal of a parallelogram bisects one of its angles. Which special kind of parallelogram *must* it be?
a. rectangle b. rhombus
c. square d. parallelogram with a 60° angle
- The lengths of the bases of a trapezoid are 18 and 26. What is the length of the median?
a. 8 b. 22 c. 44 d. 34
- In quad. $PQRS$, $PQ = SR$, $QR = PS$, and $m\angle P = m\angle Q$. Which of the following is *not necessarily* true?
a. $\overline{PR} \perp \overline{QS}$ b. $\overline{PR} \cong \overline{QS}$ c. $\angle P \cong \angle R$ d. $\angle R \cong \angle S$
- In $\triangle ABC$, $AB = 8$, $BC = 10$, and $AC = 12$. M is the midpoint of \overline{AB} , and N is the midpoint of \overline{BC} . What is the length of \overline{MN} ?
a. 4 b. 5 c. 6 d. 9
- If $EFGH$ is a parallelogram, which of the following *must* be true?
a. $\angle E \cong \angle F$ b. $\angle F \cong \angle H$
c. $\overline{FG} \parallel \overline{GH}$ d. $m\angle E + m\angle G = 180$
- Which information does *not* prove that quad. $ABCD$ is a parallelogram?
a. \overline{AC} and \overline{BD} bisect each other. b. $\overline{AD} \parallel \overline{BC}$; $\overline{AD} \cong \overline{BC}$
c. $\overline{AB} \parallel \overline{CD}$; $\overline{AD} \cong \overline{BC}$ d. $\angle A \cong \angle C$; $\angle B \cong \angle D$
- In the figure, $\overline{RU} \cong \overline{US}$ and $\angle 1 \cong \angle 2$. Which of the following *cannot* be proved?
a. $\angle 3 \cong \angle 4$ b. $\overline{RV} \cong \overline{VT}$
c. $\overline{US} \cong \overline{VT}$ d. $ST = 2 \cdot UV$
- Which of the following *must* be true for any trapezoid?
a. Any two consecutive angles are supplementary.
b. At least one angle is obtuse.
c. The diagonals bisect each other.
d. The median bisects each base.



Ex. 11