

State whether each statement is always true, sometimes true, or never true.

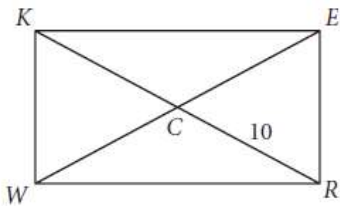
1. The diagonals of a parallelogram are congruent.
2. The consecutive angles of a rectangle are congruent and supplementary.
3. The diagonals of a rectangle bisect each other.
4. The diagonals of a rectangle bisect the angles.
5. The diagonals of a square are perpendicular bisectors of each other.
6. A rhombus is a square.
7. A square is a rectangle.
8. A diagonal divides a square into two isosceles right triangles.
9. Opposite angles in a parallelogram are congruent.
10. Consecutive angles in a parallelogram are congruent.

Find each missing measure.

11. $WREK$ is a rectangle.

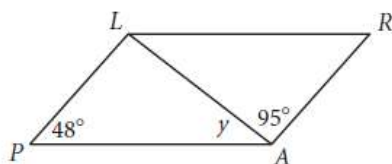
$CR = 10$

$WE = \underline{\hspace{2cm}}$



12. $PARL$ is a parallelogram.

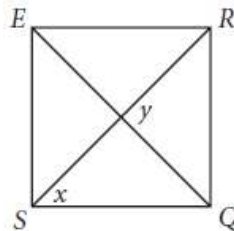
$y = \underline{\hspace{2cm}}$



13. $SQRE$ is a square.

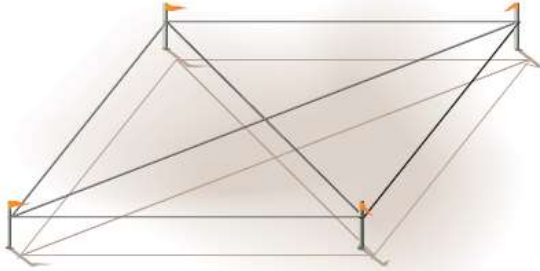
$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$



Complete.

14. To make sure that a room is rectangular, builders check the two diagonals of the room. Explain what they check about the diagonals, and why this works.



15. Calculate the measure of each lettered angle.

