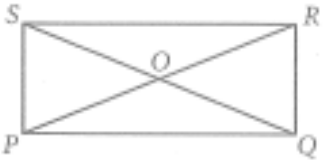
Section 5.6-5.7 worksheet **Name: _____**

1. $PQRS$ is a rectangle and $OS = 16$.

$OQ =$ _____

$m\angle QRS =$ _____

$PR =$ _____

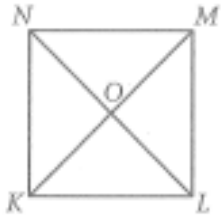


2. $KLMN$ is a square and $NM = 8$.

$m\angle OKL =$ _____

$m\angle MOL =$ _____

Perimeter $KLMN =$ _____

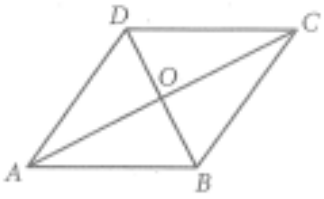


3. $ABCD$ is a rhombus, $AD = 11$, and $DO = 6$.

$OB =$ _____

$BC =$ _____

$m\angle AOD =$ _____



In Exercises 4–11, match each description with *all* the terms that fit it.

a. Trapezoid **b.** Isosceles triangle **c.** Parallelogram **d.** Rhombus

e. Kite **f.** Rectangle **g.** Square **h.** All quadrilaterals

4. _____ Diagonals bisect each other.

5. _____ Diagonals are perpendicular.

6. _____ Diagonals are congruent.

7. _____ Measures of interior angles sum to 360°.

8. _____ Opposite sides are congruent.

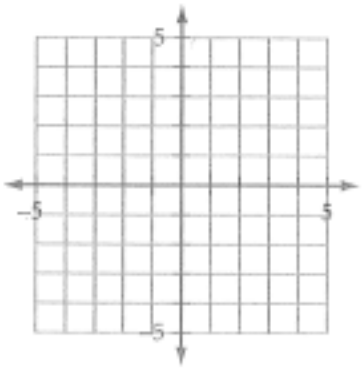
9. _____ Opposite angles are congruent.

10. _____ Both diagonals bisect angles.

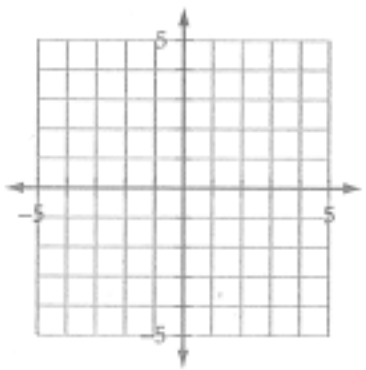
11. _____ Diagonals are perpendicular bisectors of each other.

In Exercises 12 and 13, graph the points and determine whether $ABCD$ is a trapezoid, parallelogram, rectangle, or none of these.

12. $A(-4, -1)$, $B(0, -3)$, $C(4, 0)$, $D(-1, 5)$



13. $A(0, -3)$, $B(-1, 2)$, $C(-3, 4)$, $D(-2, -1)$

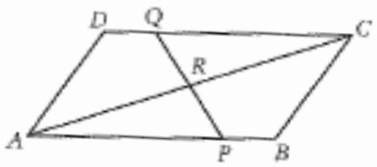


Section 5.6-5.7 worksheet **Name: _____**

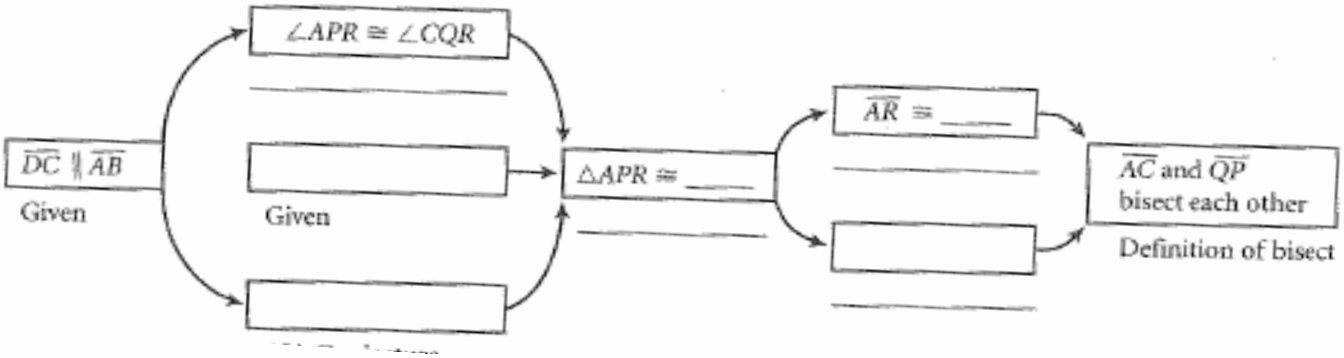
Write or complete each flowchart proof.

1. Given: $ABCD$ is a parallelogram and $\overline{AP} \cong \overline{QC}$

Show: $\overline{AC}$ and $\overline{PQ}$ bisect each other



Flowchart Proof



2. Given: Dart $ABCD$ with $\overline{AB} \cong \overline{BC}$ and $\overline{CD} \cong \overline{AD}$

Show: $\angle A \cong \angle C$