

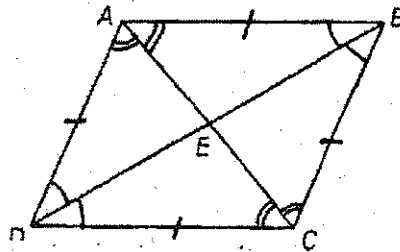
Name: _____ Date: _____

Decide whether the statement is *sometimes*, *always*, or *never* true.

1. A rhombus is equilateral.
2. The diagonals of a rectangle are perpendicular.
3. The opposite angles of a rhombus are supplementary.
4. A square is a rectangle.
5. The diagonals of a rectangle bisect each other.
6. The consecutive angles of a square are supplementary.

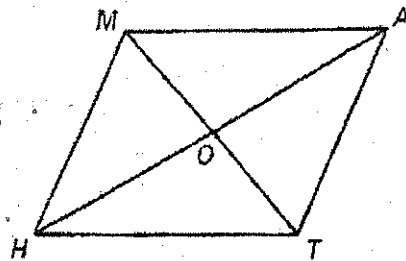
Quadrilateral $ABCD$ is a rhombus.

7. If $m\angle BAE = 32^\circ$, find $m\angle ECD$.
8. If $m\angle EDC = 43^\circ$, find $m\angle CBA$.
9. If $m\angle EAB = 57^\circ$, find $m\angle ADC$.
10. If $m\angle BEC = 3x - 15^\circ$, solve for x .
11. If $m\angle ADE = 5x - 8^\circ$ and $m\angle CBE = 3x + 24$, solve for x .
12. If $m\angle BAD = 4x + 14^\circ$ and $m\angle ABC = 2x + 10^\circ$, solve for x .



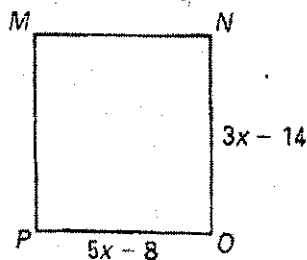
$MATH$ is a parallelogram with diagonals intersecting at O . Identify the type depending upon the given conditions.

13. $\overline{MT} \perp \overline{AH}$
14. $\overline{MT} \cong \overline{AH}$
15. $\overline{MA} \perp \overline{AT}$, $\overline{AM} \cong \overline{MH}$
16. $\overline{MO} \cong \overline{OT}$, $\overline{AO} \cong \overline{OH}$

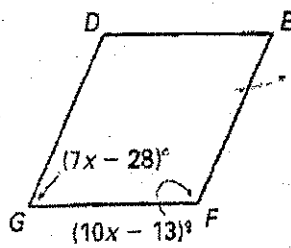


Find the value of x .

17. $MNOP$ is a square.



18. $DEFG$ is a rhombus.



19. $WXYZ$ is a rectangle.

