

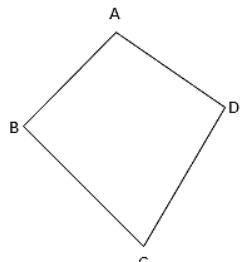
Learning Objective(s) _____:

**Main Ideas/
Questions**
Quadrilateral
Vocabulary

Notes
Quadrilateral – A _____-sided polygon
Vertex (Vertices) – The point that connects _____ sides
Adjacent side – Two sides that share a common _____
Opposite side – The side opposite a specified _____
Opposite angle – The angle opposite a specified _____

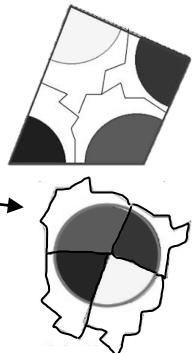
Quadrilateral
Angle
Characteristics

****Name a quadrilateral by using a quadrilateral symbol (\square) and each vertex's letter AROUND the quadrilateral.****



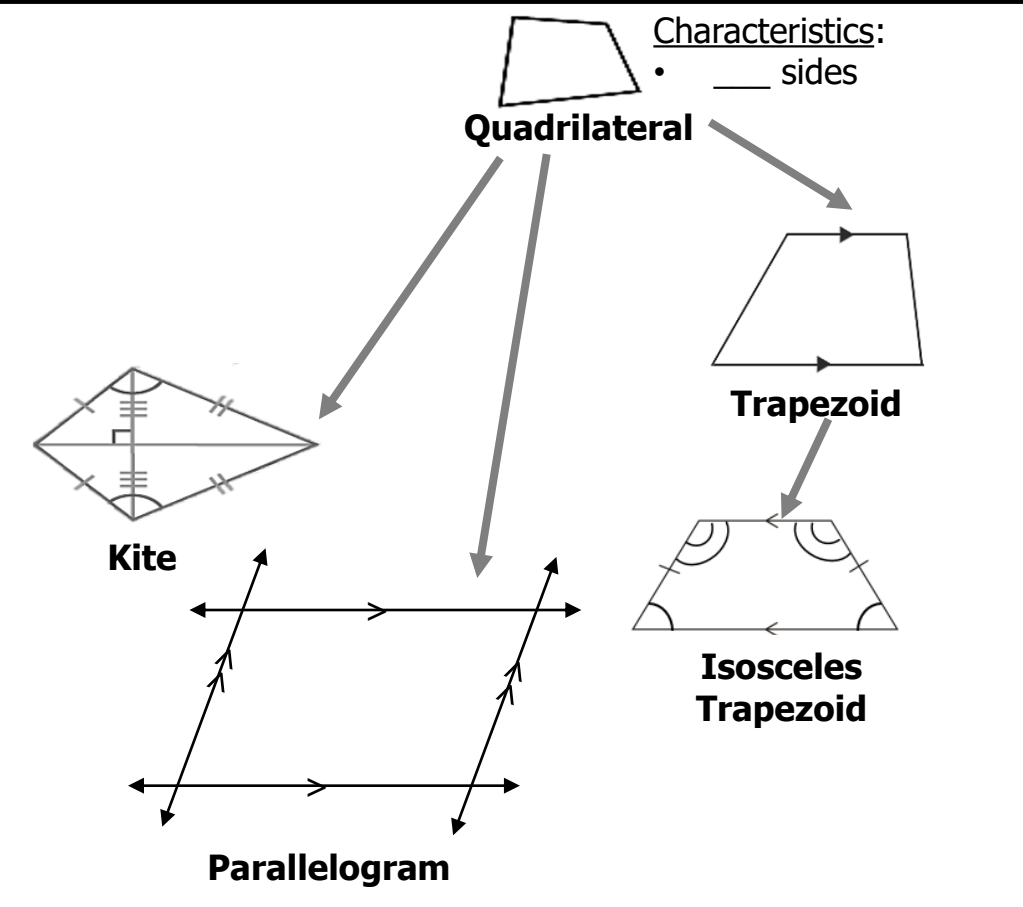
Quadrilateral Sum Theorem

4 Interior Angles = _____



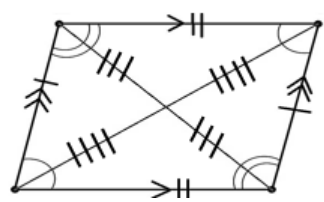
Potential Names:

Main Types of
Quadrilaterals



**Main Ideas/
Questions**
Types of
Parallelograms

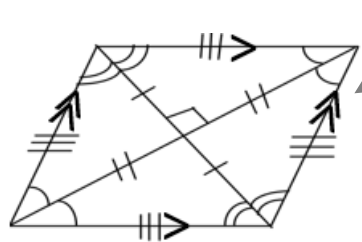
Notes



Parallelogram

Characteristics:

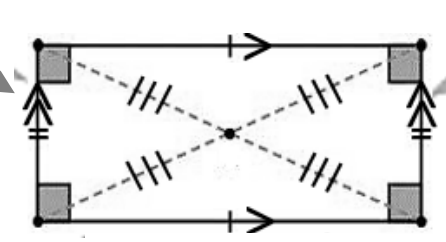
- Opposite sides are _____ AND _____
- Opposite angles are _____
- Consecutive angles are _____
- Diagonals _____ each other



Rhombus

Additional Characteristics:

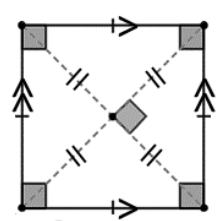
- ALL sides are _____
- Diagonals
 - ✓ Are _____
 - ✓ **BISECT** _____



Rectangle

Additional Characteristics:

- ALL corner angles are _____
- Diagonals are _____



Square

Examples

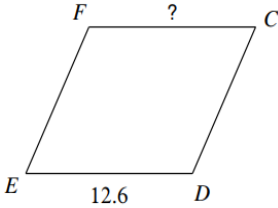
Label each statement as ALWAYS, SOMETIMES, or NEVER true.

1. A square is a rectangle.
2. A rectangle is a square.
3. A parallelogram have opposite sides that are not congruent.
4. A trapezoid has opposite sides are parallel.

**Main Ideas/
Questions**
Examples

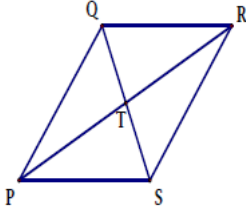
Notes

5. $\square CDEF$ is a parallelogram.
What is the length of FC ?

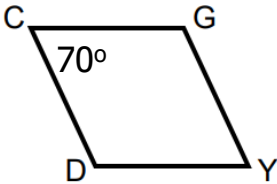


$\square RSPQ$ is a rhombus.

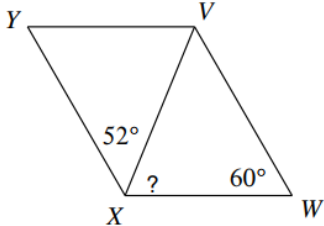
$m\angle PRS = 35^\circ$ and $m\angle PRQ = (3x + 5)^\circ$



7. $\square CDYG$ is a parallelogram.
Find the rest of the angles.

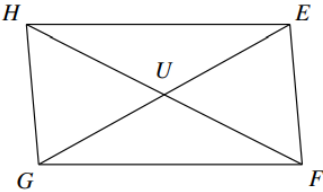


8. $\square VWXY$ is a parallelogram.
What are the rest of the angle measures?

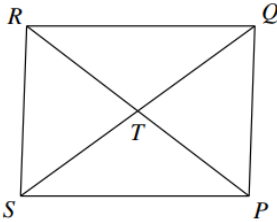


9. $\square EFGH$ is a parallelogram
Solve for x .

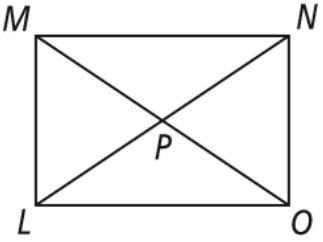
$UH = 19$
 $FH = 5x - 7$



10. $\square RQPS$ is a square. If $SP = 4$,
what is the length of the diagonal?



11. $\square LMNO$ is a rectangle.
 $MO = 2x - 4$ and $LN = 3x - 10$.
Solve for MO .



12. $\square QRSP$ is a rectangle.
If $RQ = 8$ and $TQ = 6$, what is the
length of RS ?

