



Geometry Workbook

Quadrilaterals

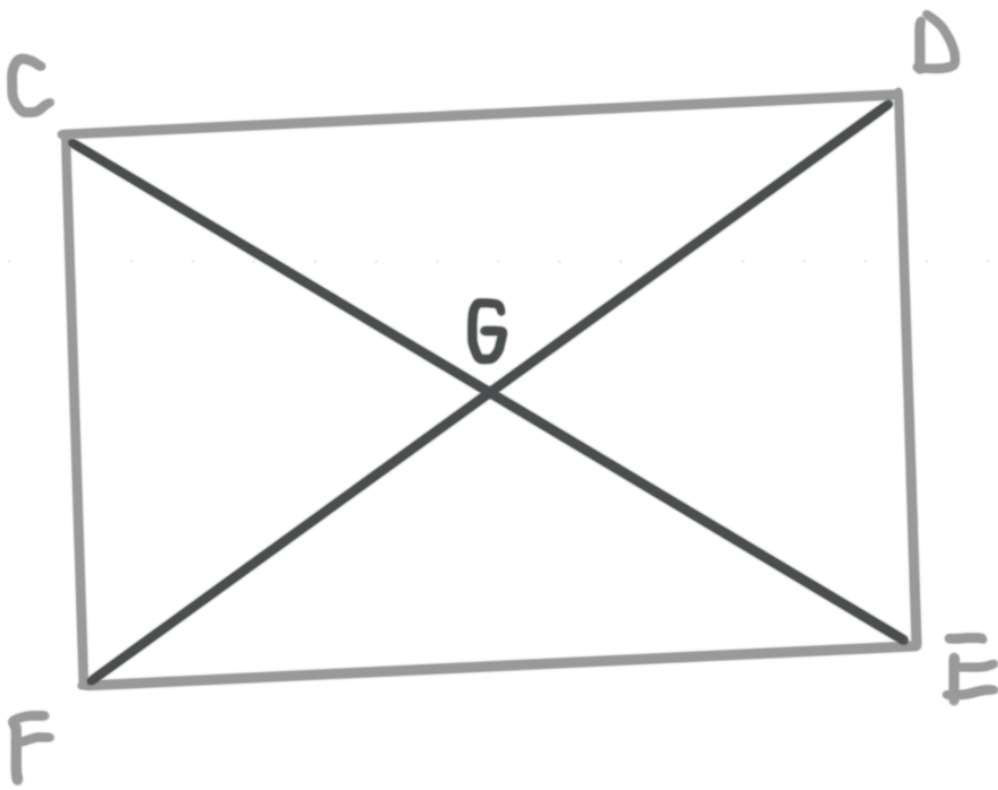
krista king
MATH

MEASURES OF QUADRILATERALS

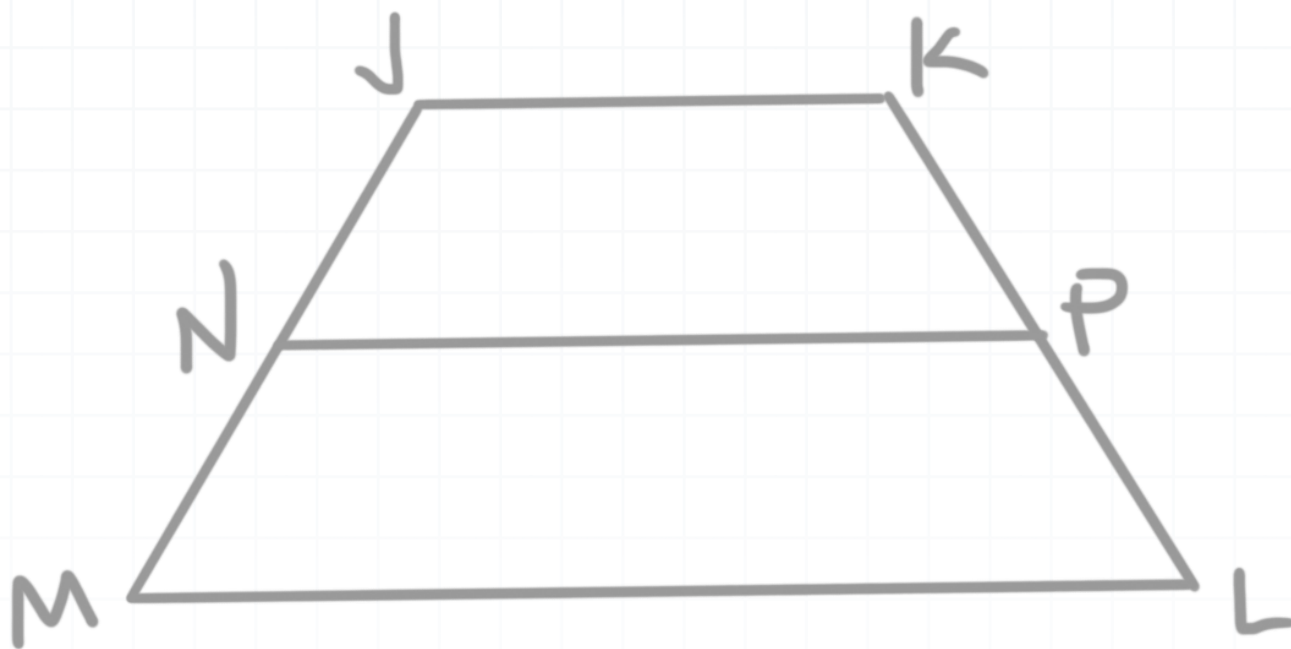
■ 1. A rectangle has a width of 6 inches and diagonal with length 10 inches. Find the perimeter of the rectangle.

■ 2. Classify quadrilateral $ABCD$ with vertices at $A(1, -3)$, $B(5,0)$, $C(10,0)$, and $D(6, -3)$.

■ 3. $CDEF$ is a rectangle with diagonals intersecting at G . $CG = 2x + 1$, $DG = x + 4$, $FG = 4y - 1$, and $EG = y + 5$. Find FD .



- 4. $JKLM$ is an isosceles trapezoid with median \overline{NP} . $MJ = 14$, $m\angle MLP = 72$, $NP = 16$, and $ML = 20$. Find KP , $m\angle MJK$, and JK .



MEASURES OF PARALLELOGRAMS

- 1. $ABCD$ is a parallelogram with $m\angle A = 2x + 10$, $m\angle B = y - 5$, and $\angle C = 100$. Find the values of x and y .
- 2. $EFGH$ is a rhombus with $FH = 24$ and $GE = 10$. Find the perimeter of $EFGH$.
- 3. $JKLM$ has vertices $J(-3,2)$, $K(3,0)$, $L(3, -6)$, and $M(-3, -4)$. Determine whether $JKLM$ is a parallelogram by checking if it has two sets of opposite sides that are congruent.
- 4. $NLPM$ is a parallelogram with diagonals intersecting at point Q . $m\angle MNP = 85$, $m\angle MQP = 115$, and $m\angle MNL = 135$. Find $m\angle PML$.

