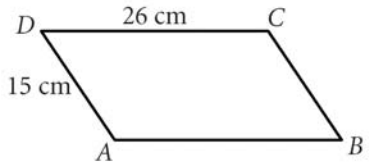
Name_____ Date_____

# 6.5 – Discovering Properties of Parallelograms

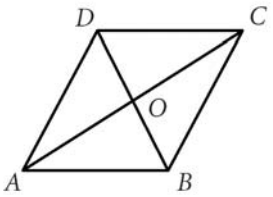
**In #1-7, *ABCD* is a parallelogram despite how they may appear.**

1) Perimeter $ABCD$ = _____



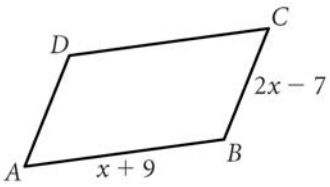

2) $AO = 11$, and $BO = 7$.

$AC$ = _____, $BD$ = _____

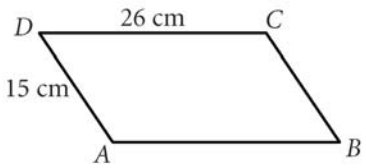



3) Perimeter $ABCD = 46$.

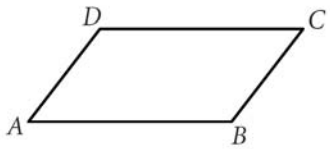
$AB$ = _____, $BC$ = _____



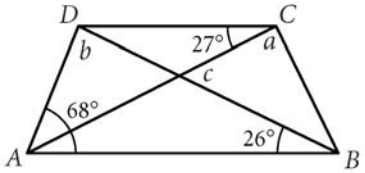

4) Perimeter $ABCD$ = _____



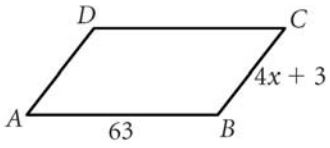

5) Perimeter $ABCD = 119$, and $BC = 24$. $AB$ = _____




6) $a$ = _____, $b$ = _____, $c$ = _____

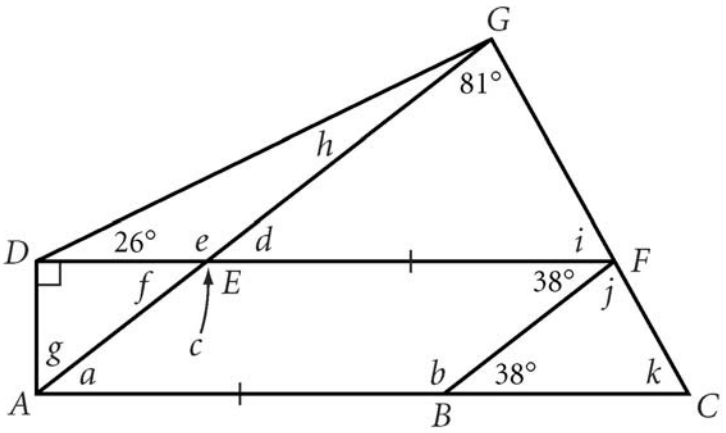



7) Perimeter $ABCD = 16x - 12$. $AD$ = _____




8) If the diagonals of a quadrilateral are 15 cm and 9 cm, what is the perimeter of the quadrilateral formed by connecting the midpoints of the sides?

9)




$a$ = _____ $g$ = _____

$b$ = _____ $h$ = _____

$c$ = _____ $i$ = _____

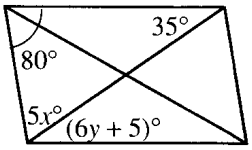
$d$ = _____ $j$ = _____

$e$ = _____ $k$ = _____

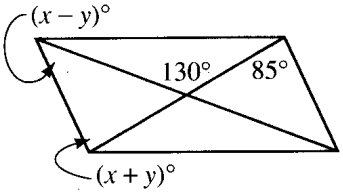
$f$ = _____

**Each diagram shows a trapezoid. Solve for $x$ and $y$. Show all work.**

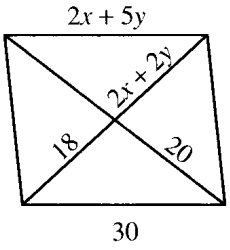
10)




11)




12)




13)