

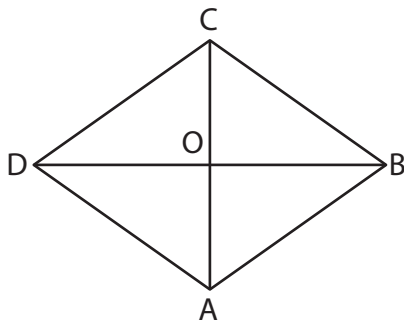
Name : _____

Rhombus

Sheet 1

A) Find the value of x in each rhombus.

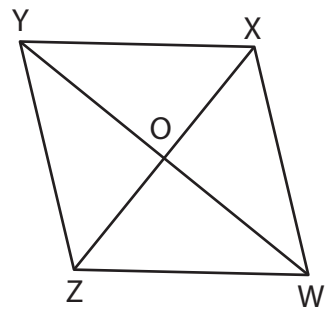
1)



$OA = (x + 20)$ in ; $OC = (6x)$ in

$x =$ _____

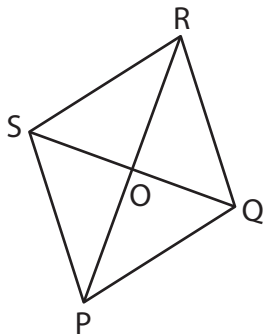
2)



$XZ = \left(\frac{x}{2}\right)$ ft ; $OZ = 21$ ft

$x =$ _____

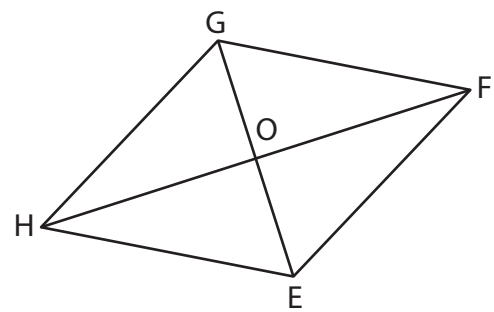
3)



$OQ = (8x - 49)$ yd ; $OS = (94 - 5x)$ yd

$x =$ _____

4)

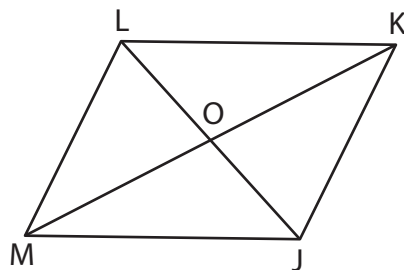


$GO = (2x + 9)$ in ; $GE = (38 + 3x)$ in

$x =$ _____

B) Solve for x and y in each rhombus and find the indicated measure.

1)

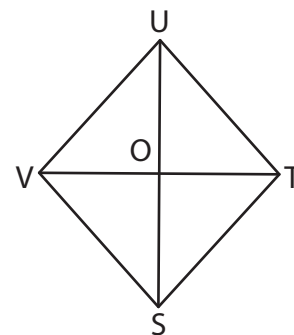


$MK = (4x)$ ft ; $OK = 30$ ft

$OL = (5 - 2y)$ ft ; $LJ = (-y + 13)$ ft

$x =$ _____ ; $y =$ _____ ; $LJ =$ _____

2)



$VO = (9y - 20)$ yd ; $TO = (5y)$ yd

$OU = (27 + 7x)$ yd ; $OS = 41$ yd

$x =$ _____ ; $y =$ _____ ; $VT =$ _____

Name : _____

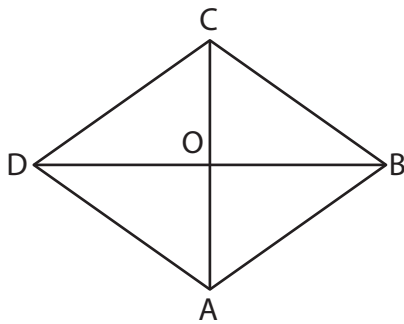
Answer key

Rhombus

Sheet 1

A) Find the value of x in each rhombus.

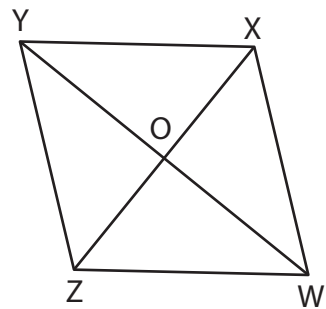
1)



$OA = (x + 20)$ in ; $OC = (6x)$ in

$x = \underline{\quad 4 \quad}$

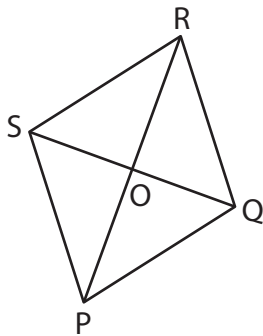
2)



$XZ = \left(\frac{x}{2}\right)$ ft ; $OZ = 21$ ft

$x = \underline{\quad 84 \quad}$

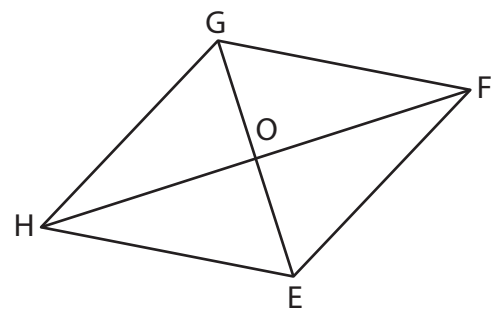
3)



$OQ = (8x - 49)$ yd ; $OS = (94 - 5x)$ yd

$x = \underline{\quad 11 \quad}$

4)

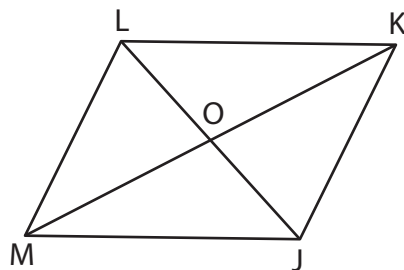


$GO = (2x + 9)$ in ; $GE = (38 + 3x)$ in

$x = \underline{\quad 20 \quad}$

B) Solve for x and y in each rhombus and find the indicated measure.

1)

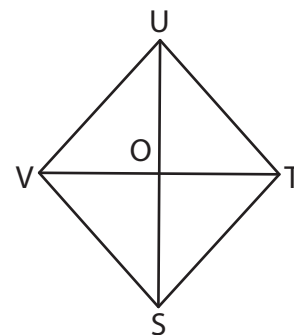


$MK = (4x)$ ft ; $OK = 30$ ft

$OL = (5 - 2y)$ ft ; $LJ = (-y + 13)$ ft

$x = \underline{\quad 15 \quad}$; $y = \underline{\quad -1 \quad}$; $LJ = \underline{\quad 14 \text{ ft} \quad}$

2)



$VO = (9y - 20)$ yd ; $TO = (5y)$ yd

$OU = (27 + 7x)$ yd ; $OS = 41$ yd

$x = \underline{\quad 2 \quad}$; $y = \underline{\quad 5 \quad}$; $VT = \underline{\quad 50 \text{ yd} \quad}$