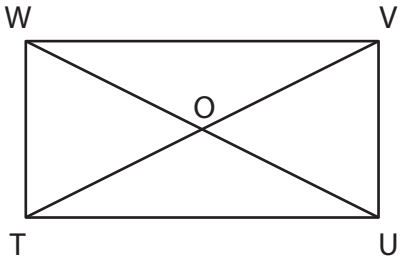
Name : _____

Diagonal of a Rectangle

Sheet 5

Solve for x and then find the length of the diagonal.

1)

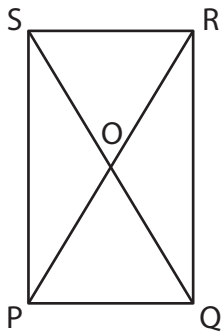


OV = (32 – 3x) ft ; OW = (5x) ft

x = _____

diagonal = _____

2)

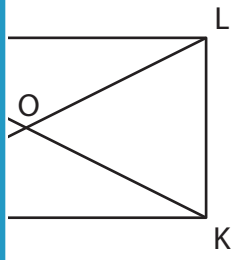


PR = (6x – 50) in ; OP = $\left(\frac{x}{2}\right)$ in

_____

_____

3)



AC = (–7 + 9x) in

) yd ; JL = (8x) yd

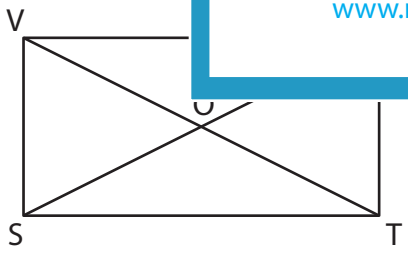
x = _____

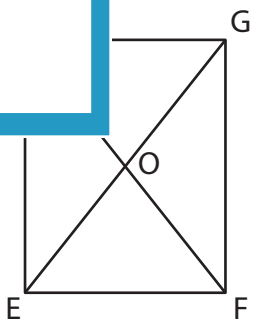
diagonal = _____

_____

_____

5)





OS = (29 + x) yd ; OV = (9 + 2x) yd

x = _____

diagonal = _____

OF = (–9x – 24) ft ; OH = (8 – 5x) ft

x = _____

diagonal = _____

Name : _____

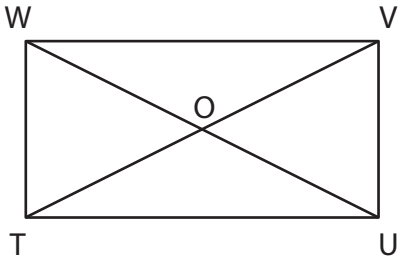
Answer key

Sheet 5

Diagonal of a Rectangle

Solve for x and then find the length of the diagonal.

1)

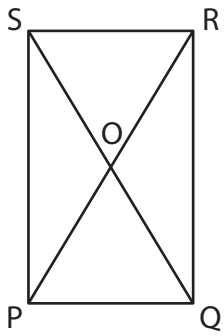


OV = (32 – 3x) ft ; OW = (5x) ft

x = _____

diagonal = _____

2)

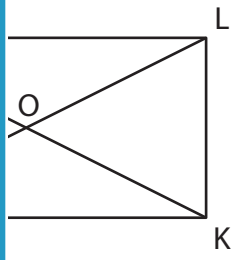


PR = (6x – 50) in ; OP = $\left(\frac{x}{2}\right)$ in

x = 10

diagonal = 10 in

3)

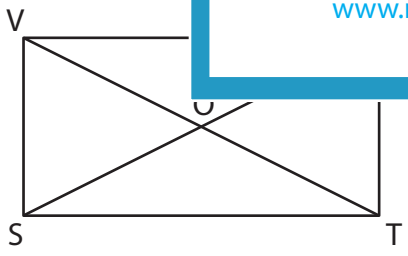


AC = (–7 + 9x) in ; JL = (8x) yd

x = 3

diagonal = 24 yd

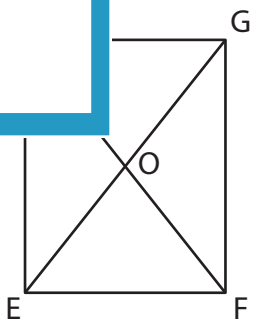
5)



OS = (29 + x) yd ; OV = (9 + 2x) yd

x = 20

diagonal = 98 yd



OF = (–9x – 24) ft ; OH = (8 – 5x) ft

x = –8

diagonal = 96 ft