

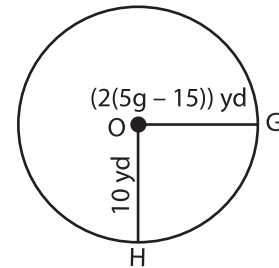
Name : \_\_\_\_\_

## Multi-Step Equations: Shapes

Type 3: S2

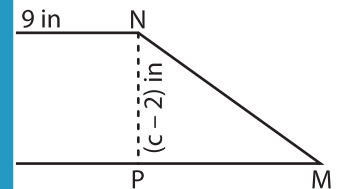
Solve each problem.

- 1) O is the center of the circle given in the figure. If  $OH = 10$  yd, find the value of  $g$ .



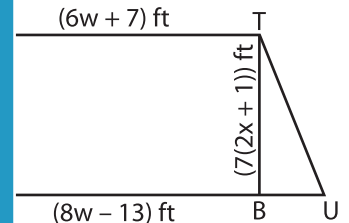
$g =$  \_\_\_\_\_

- 2) In the quadrilateral  $NPMP$ ,  $NP = 9$  in,  $PM = c - 2$  in, and  $MP = 9$  in. Find the value of  $c$ .



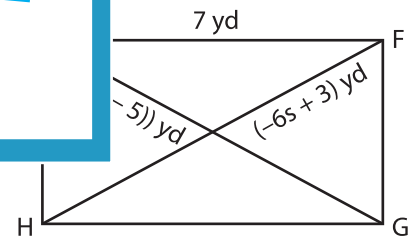
$c =$  \_\_\_\_\_

- 3)  $STUV$  is a trapezoid with  $ST = 6w + 7$  ft,  $UV = 8w - 13$  ft, and  $TU = 7(2x + 1)$  ft. Find the value of  $w$  and  $x$ , if  $STUV$  is a rectangle.



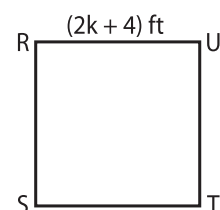
$w =$  \_\_\_\_\_

- 4) The diagonals  $EG$  and  $FH$  of a parallelogram  $EHGF$  intersect at point  $O$ . If  $EO = 7$  yd and  $FO = (3(-8s - 5))$  yd, find the value of  $s$ .



$s =$  \_\_\_\_\_

- 5) The perimeter of the square  $RSTU$  is 32 ft. Find the value of  $k$  and the side  $RS$ .



$k =$  \_\_\_\_\_ ;  $RS =$  \_\_\_\_\_

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