

Name : _____

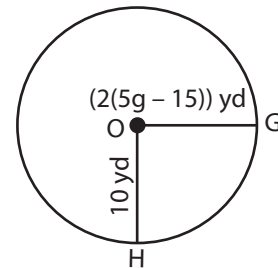
Multi-Step Equations: Shapes

Type 3: S2

Solve each problem.

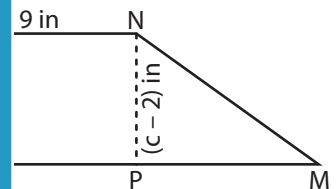
- 1) O is the center of the circle given in the figure. If $OH = 10$ yd, find the value of g .

$g =$ _____



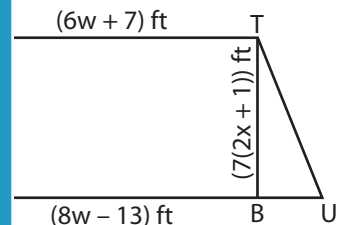
- 2) In the quadrilateral $NPMP$, NP is perpendicular to PM . Find the value of c .

$c =$ _____



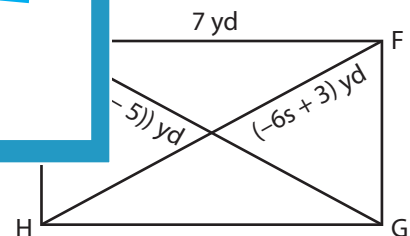
- 3) $STUV$ is a trapezoid. ST is parallel to UV . Find the value of w and x , if $STBA$ is a rectangle.

$w =$ _____



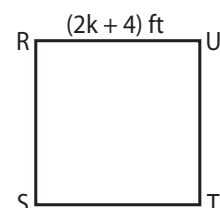
- 4) The diagonals EG and FH of the parallelogram $EHFG$ intersect at point O . Find the value of s if $EO = (3(-8s - 5))$ yd and $FO = (-6s + 3)$ yd.

$s =$ _____



- 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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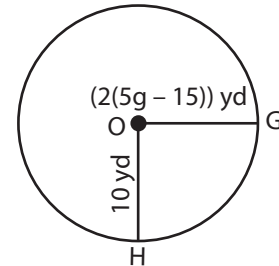
Answer Key

Multi-Step Equations: Shapes

Type 3: S2

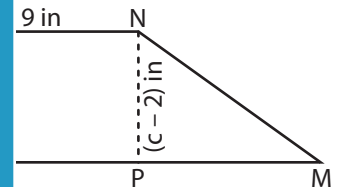
Solve each problem.

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



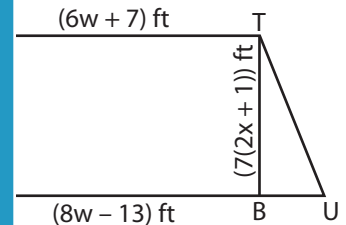
$g = \underline{\quad 4 \quad}$

- 2) In the quadrilateral $NPOM$, $NPOM$ is a rectangle. Find the value of c .



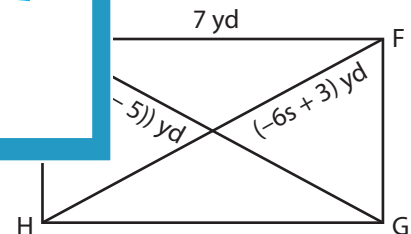
$c = \underline{\quad 9 \quad}$

- 3) $STUV$ is a trapezoid. $STBA$ is a rectangle. Find the value of w and x , if $STBA$ is a rectangle.



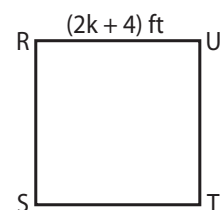
$w = \underline{\quad 10 \quad}$

- 4) The diagonals EG and FH of the parallelogram $EHGF$ intersect at point A . If $EA = (3(-8s - 5))$ yd and $FA = (-6s + 3)$ yd, find the value of s .



$s = \underline{\quad -1 \quad}$

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



$k = \underline{\quad 2 \quad}$; $RS = \underline{\quad 8 \text{ ft} \quad}$

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