

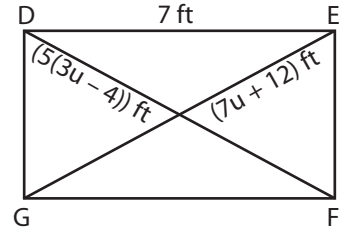
Name : _____

Multi-Step Equations: Shapes

Type 3: S5

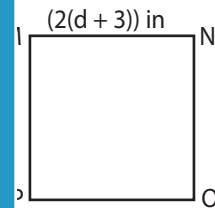
Solve each problem.

- 1) The diagonals DF and EG of the rectangle DEFG are equal. If $DF = (5(3u - 4))$ ft and $EG = (7u + 12)$ ft, find the value of u .



$u =$ _____

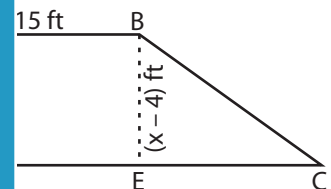
- 2) The perimeter of the square MNOP is 16 in. Find the value of d and the side MN.



$d =$ _____

- 3) In the quadrilateral BECD, $BE = (x - 4)$ ft, find the value of x .

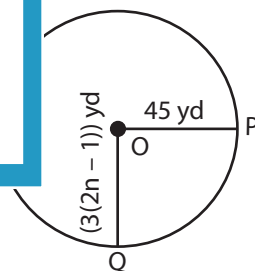
rectangle.



$x =$ _____

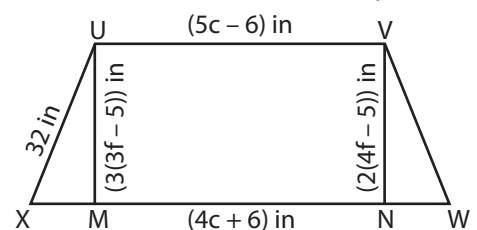
- 4) O is the center of the circle. Find the value of n .

Find the value of n .



$n =$ _____

- 5) UVWX is a trapezoid where VN and UM are the heights. Find the value of c and f , if UVWX is a rectangle.



$c =$ _____ ; $f =$ _____

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Name : _____

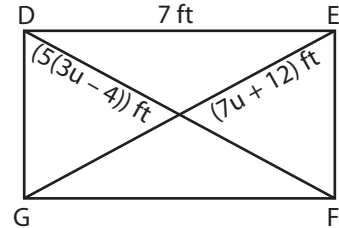
Answer Key

Multi-Step Equations: Shapes

Type 3: S5

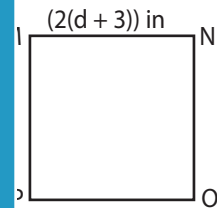
Solve each problem.

- 1) The diagonals DF and EG of the rectangle DEFG are equal. If $DF = (5(3u - 4))$ ft and $EG = (7u + 12)$ ft, find the value of u .



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

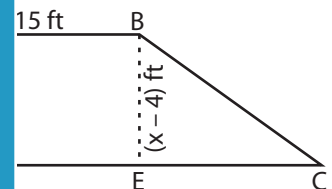
- 2) The perimeter of the square MNOP is 16 in. Find the value of d and the side MN.



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

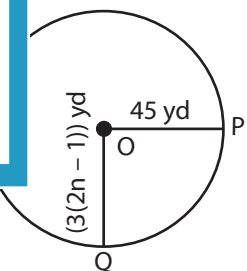
- 3) In the quadrilateral BEFC, find the value of x . If $BE = (x - 4)$ ft, find the value of x .

rectangle.



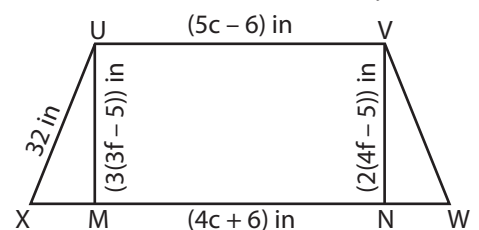
$x = \underline{\quad 15 \quad}$

- 4) O is the center of the circle. Find the value of n .



$n = \underline{\quad 8 \quad}$

- 5) UVWX is a trapezoid where VN and UM are the heights. Find the value of c and f , if UVWX is a rectangle.



$c = \underline{\quad 12 \quad}$; $f = \underline{\quad 5 \quad}$

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