

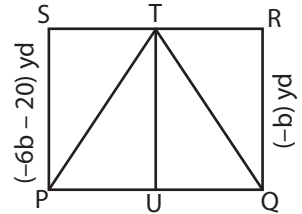
Name : _____

Two-Step Equations: Shapes

Type 2: S4

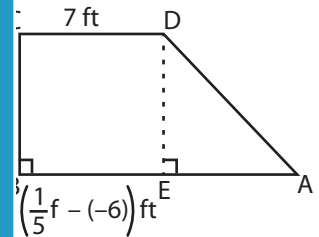
Solve each problem.

- 1) A triangle TPQ is inscribed in the rectangle PQRS. Find the height TU of the triangle.



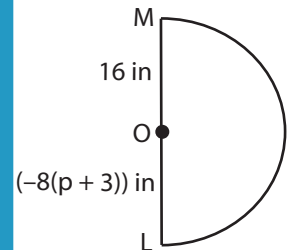
$b = \underline{\hspace{2cm}}$; $TU = \underline{\hspace{2cm}}$

- 2) ABCD is a right trapezoid with a right angle at B. The length of the top base CD is 7 ft, and the length of the bottom base AB is $(\frac{1}{5}f - (-6))$ ft. Find the value of f.



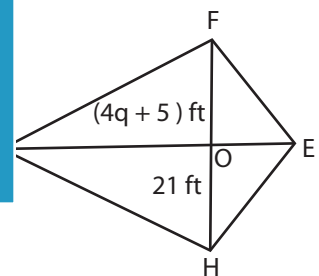
$f = \underline{\hspace{2cm}}$

- 3) LM is the diameter of a semicircle with center O. The radius OM is 16 in, and the length of the diameter LM is $(-8(p + 3))$ in. Find the value of p.



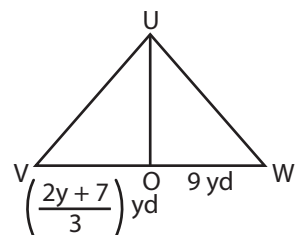
$p = \underline{\hspace{2cm}}$

- 4) EFGH is a kite with diagonals intersecting at O. The length of the vertical diagonal FO is $(4q + 5)$ ft, and the length of the horizontal diagonal EH is 21 ft. Find the value of q.



$q = \underline{\hspace{2cm}}$

- 5) UVW is a triangle with base VW. UO is a median. The length of the base VW is $(\frac{2y + 7}{3})$ yd, and the length of the segment OW is 9 yd. Find the value of y.



$y = \underline{\hspace{2cm}}$

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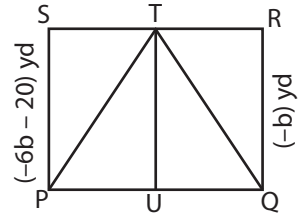
Answer Key

Two-Step Equations: Shapes

Type 2: S4

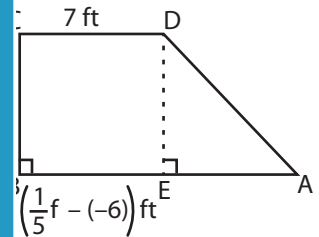
Solve each problem.

- 1) A triangle TPQ is inscribed in the rectangle PQRS. Find the height TU of the triangle.



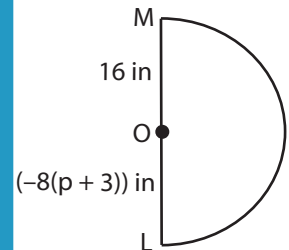
$b = \underline{\quad -4 \quad}$; $TU = \underline{\quad 4 \text{ yd} \quad}$

- 2) ABCD is a right trapezoid with a right angle at B. The length of the top base CD is 7 ft, and the length of the bottom base AB is $(\frac{1}{5}f - (-6))$ ft. Find the value of f.



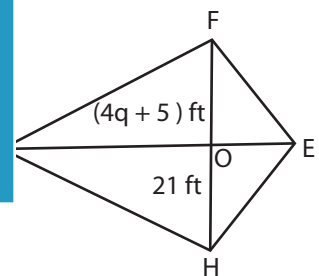
$f = \underline{\quad 5 \quad}$

- 3) LM is the diameter of a semicircle with center O. The radius OM is 16 in, and the length of the diameter LM is $(-8(p + 3))$ in. Find the value of p.



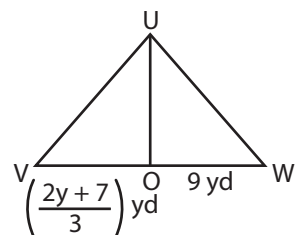
$p = \underline{\quad -5 \quad}$

- 4) EFGH is a kite with diagonals FH and EG intersecting at O. The length of the diagonal FH is $(4q + 5)$ ft, and the length of the diagonal EG is 21 ft. Find the value of q.



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

- 5) UVW is a triangle with base VW. UO is a median. The length of the base VW is $(\frac{2y + 7}{3})$ yd, and the length of the segment OW is 9 yd. Find the value of y.



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

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