

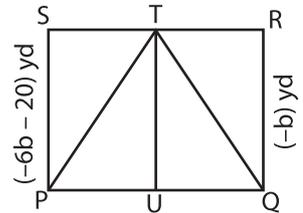
Name : _____

Two-Step Equations: Shapes

Type 2: S4

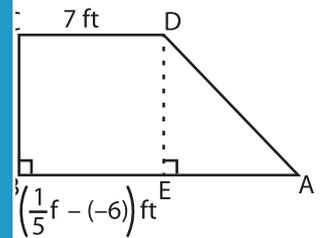
Solve each problem.

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



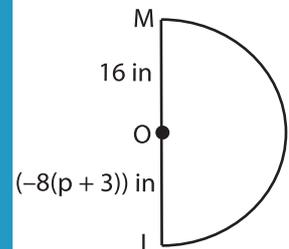
$b =$ _____ ; $TU =$ _____

- 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.



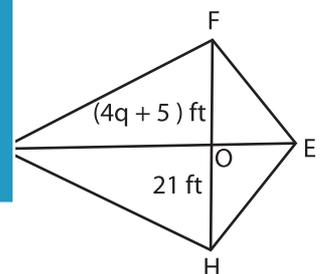
$f =$ _____

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



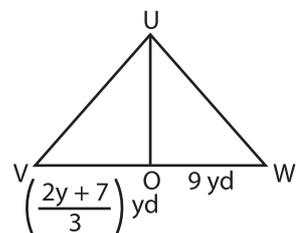
$p =$ _____

- 4) EFGH is a kite. 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.



$q =$ _____

- 5) UVW is a triangle. 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.



$y =$ _____

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