

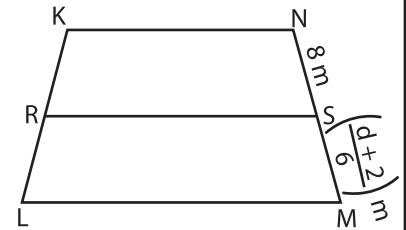
Name : \_\_\_\_\_

## Two-Step Equations: Shapes

Type 2: S2

Solve each problem.

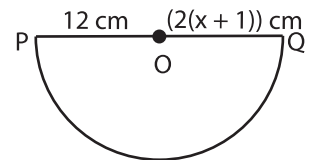
- 1) In the trapezoid KLMN, R and S are the midpoints of KL and NM respectively. If NS measures 8 m, find the value of d.



$d =$  \_\_\_\_\_

- 2) PQ is the diameter of a semicircle. PQ is  $2(x + 1)$  cm. The radius is 12 cm, find the value of x.

The radius is 12 cm, find the



$x =$  \_\_\_\_\_

- 3) A triangle EAB is inscribed in a rectangle ABCD. EF is the height of the triangle. EF = p cm. AB =  $66 - 4p$  cm. Find the value of p.

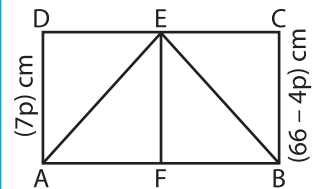
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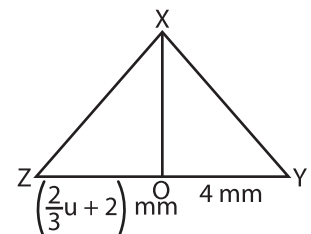
Find the value of EF of the triangle.



$p =$  \_\_\_\_\_

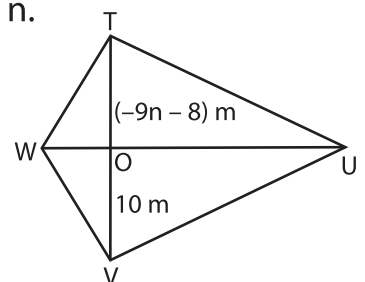
- 4) XYZ is a triangle. XO is the altitude. ZO =  $\frac{2}{3}u + 2$  mm. OY = 4 mm. Find the value of u.

Find the value of u.



$u =$  \_\_\_\_\_

- 5) TUVW is a kite. OU measures 10 m. If  $WO = OU$ , find the value of n.



$n =$  \_\_\_\_\_