

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

## One-Step Equations: Shapes

Type 2: S4

Solve each problem.

- 1) In the given semi-circle,  $\overline{AB}$  is the diameter and O is the center. If  $AO = 21$  m, find q.

q = \_\_\_\_\_

- 2) EFGH is a quadrilateral. The side  $\overline{EH}$  measures 8 mm. A perpendicular  $\overline{HI}$  is drawn from the vertex H to the base  $\overline{FG}$ , find the value of z and determine the length of  $\overline{FG}$ .

z = \_\_\_\_\_

- 3) PQR is a triangle. Find the value of t.

t = \_\_\_\_\_

- 4) UVWX is a kite. Find the value of p and determine the length of  $\overline{VW}$ .

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

- 5) KLMN is a rectangle whose diagonals bisect each other. Given that  $LN = 20$  m and  $MO = 6\frac{1}{2}y$  m, find the value of y.

y = \_\_\_\_\_

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