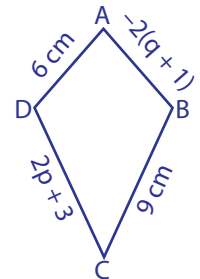


Two-Step Equations: Shapes

Type 2: S1

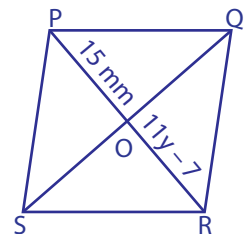
Solve each problem.

- 1) ABCD is a kite. Two pairs of sides have equal lengths. Find the value of p and q.



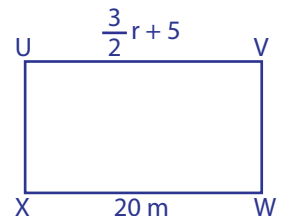
$p = \underline{\hspace{2cm}}$; $q = \underline{\hspace{2cm}}$

- 2) PQRS is a rhombus with center O. PO measures 15 mm. Find the value of y.



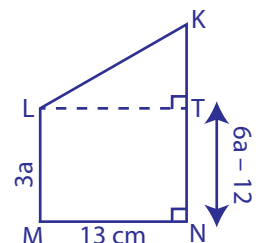
$y = \underline{\hspace{2cm}}$

- 3) UVWX is a rectangle. XW measures 20 m. Find the value of r.



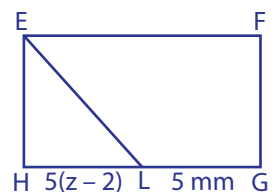
$r = \underline{\hspace{2cm}}$

- 4) KLMN is a right trapezoid. A perpendicular LT is drawn to the side KN. Find the value of a.



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

- 5) EFGH is a rectangle. A line drawn from the vertex E bisects the side HG at L. If $LG = 5$ mm, find the value of z.



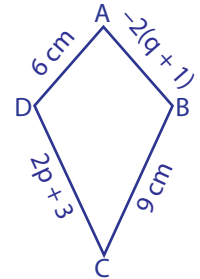
$z = \underline{\hspace{2cm}}$

Answer Key**Two-Step Equations: Shapes**

Type 2: S1

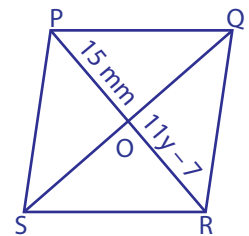
Solve each problem.

- 1) ABCD is a kite. Two pairs of sides have equal lengths. Find the value of p and q.



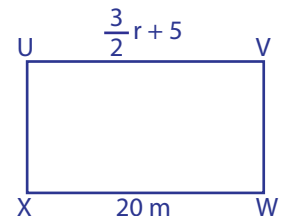
$$p = \underline{\quad 3 \quad} ; q = \underline{\quad -4 \quad}$$

- 2) PQRS is a rhombus with center O. PO measures 15 mm. Find the value of y.



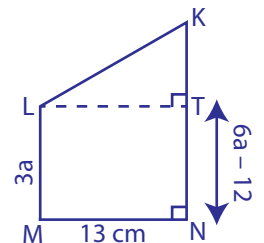
$$y = \underline{\quad 2 \quad}$$

- 3) UVWX is a rectangle. XW measures 20 m. Find the value of r.



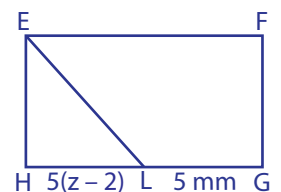
$$r = \underline{\quad 10 \quad}$$

- 4) KLMN is a right trapezoid. A perpendicular LT is drawn to the side KN. Find the value of a.



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

- 5) EFGH is a rectangle. A line drawn from the vertex E bisects the side HG at L. If LG = 5 mm, find the value of z.



$$z = \underline{\quad 3 \quad}$$