Multi-Step Equations: Shapes
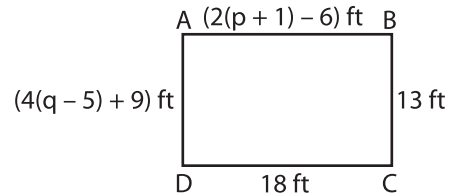
Solve each problem.

1) The length and breadth of a rectangle ABCD are 18 ft and 13 ft respectively. Find the value of p and q.

A (2(p + 1) – 6) ft B

(4(q – 5) + 9) ft   13 ft

D   18 ft   C

p = _____ ; q = _____

2) WXYZ is a kite whe_____ e of a and b.

$\left(\frac{3}{6}\right)$ yd W (3(b – 8)) yd

Z   X

$\left(16a – 8\right)$ yd 4 yd

5a Y

a = _____
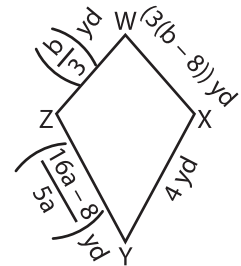
3) O is the the centre _____ dius EO is 6 in, find the value of n.

$\left(\frac{20 – 2n}{3}\right)$ in

6 in

E   O   F

n = _____
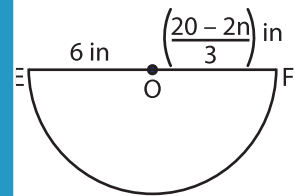
4) LMN is a right angl_____ = 12 ft. Find the value of h.

L

12 ft

M (4h – 4) ft N

h = _____
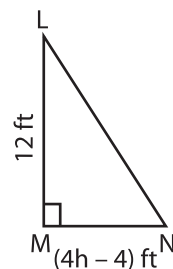
5) In the trapezoid PQRS, X and Y are the midpoints of PQ and RS respectively. If SY = 17 yd, find the value of d.

P   X   Q

S   17 yd   Y $\left(\frac{7(7d – 15)}{14}\right)$ yd R

d = _____