Multi-Step Equations: Shapes
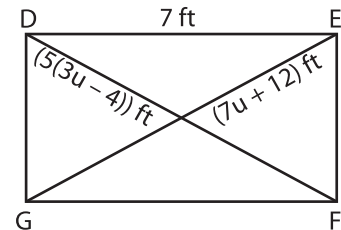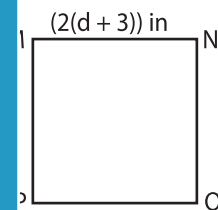
Solve each problem.

1) The diagonals DF and EG of the rectangle DEFG are equal. If DF = (5(3u – 4)) ft and EG = (7u + 12) ft, find the value of u.

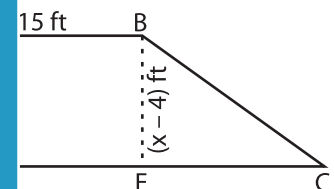D _____ 7 ft _____ E
(5(3u – 4)) ft   (7u + 12) ft
G   F

u = _____

2) The perimeter of the square MNOP is 16 in. Find the value of d and the side MN.

(2(d + 3)) in   N
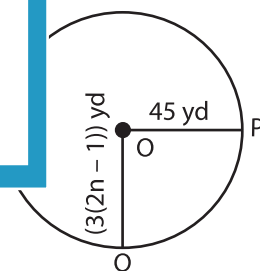
O

d = _____ ;

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3) In the quadrilatera_____ rectangle.
If BE = (x – 4) ft, fin_____

15 ft   B

(x – 4) ft

E   C

x = _____

4) O is the center of th_____ the value of n.

(3(2n – 1)) yd   45 yd   P
O

n = _____

Q

5) UVWX is a trapezoid where VN and UM are the heights. Find the value of c and f, if UVWX is a rectangle.

U   (5c – 6) in   V

32 in   (3(3f – 5)) in   (2(4f – 5)) in

X   M   (4c + 6) in   N   W

c = _____ ;   f = _____