Multi-Step Equations: Shapes
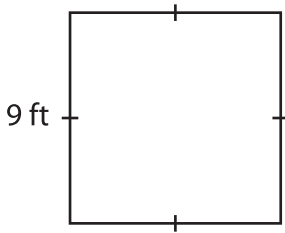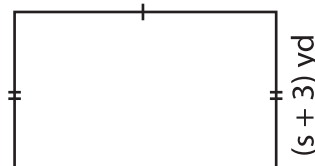
Find the unknown value given in each shape.

1) Area $= \left(\frac{1}{2}(29k - 12)\right)$ ft²

9 ft

k = _____

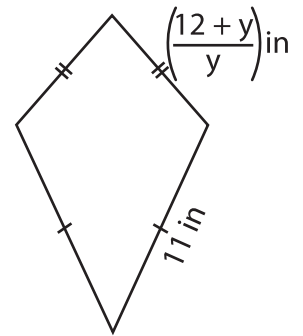2) Area $= \left(\frac{1}{2}(47s + 15)\right)$ yd²

(s + 3) yd
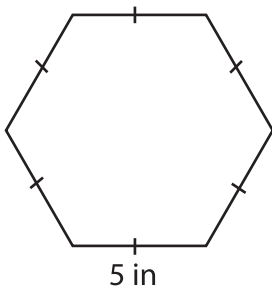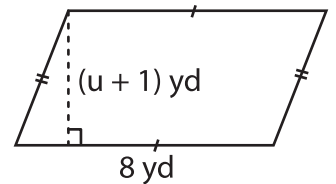
3) Perimeter = 36 in

$\left(\frac{12 + y}{y}\right)$ in

11 in

y = _____

4) Perimeter = (3(2v –

5 in

v = _____
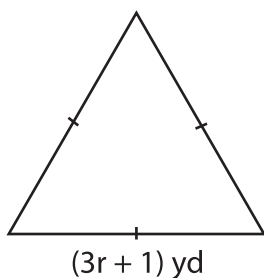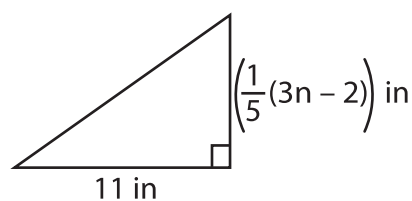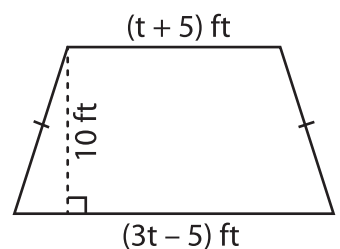
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Area = (2(5u – 1)) yd²

(u + 1) yd

8 yd

u = _____

7) Perimeter = 30 yd

(3r + 1) yd

r = _____

$\left(\frac{1}{5}(3n - 2)\right)$ in

11 in

n = _____

Area = (2(9t + 7)) ft²

(t + 5) ft

10 ft

(3t – 5) ft

t = _____