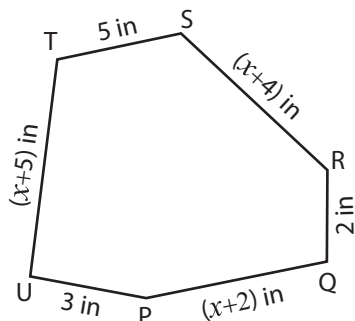


# Polygons | Finding the Unknown Sides

Find the value of  $x$ , and the length of the unknown sides.

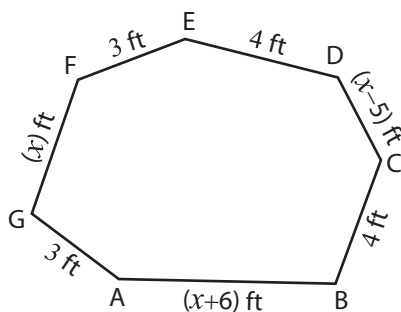
1)



Perimeter = 60 in;  $x = \underline{\hspace{2cm}}$ ;

PQ =  $\underline{\hspace{2cm}}$ ; SR =  $\underline{\hspace{2cm}}$ ; TU =  $\underline{\hspace{2cm}}$

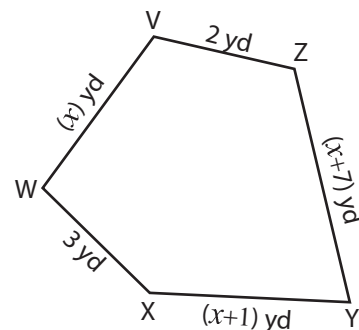
2)



Perimeter = 36 ft;  $x = \underline{\hspace{2cm}}$ ;

AB =  $\underline{\hspace{2cm}}$ ; CD =  $\underline{\hspace{2cm}}$ ; FG =  $\underline{\hspace{2cm}}$

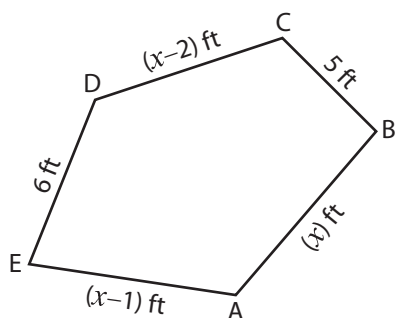
3)



Perimeter = 28 yd;  $x = \underline{\hspace{2cm}}$ ;

VW =  $\underline{\hspace{2cm}}$ ; XY =  $\underline{\hspace{2cm}}$ ; YZ =  $\underline{\hspace{2cm}}$

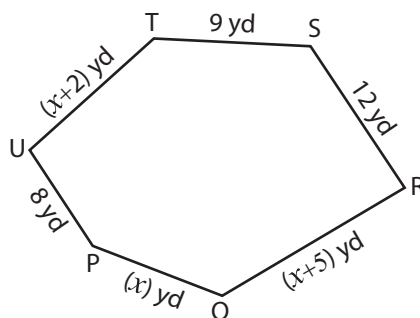
4)



Perimeter = 38 ft;  $x = \underline{\hspace{2cm}}$ ;

AB =  $\underline{\hspace{2cm}}$ ; CD =  $\underline{\hspace{2cm}}$ ; AE =  $\underline{\hspace{2cm}}$

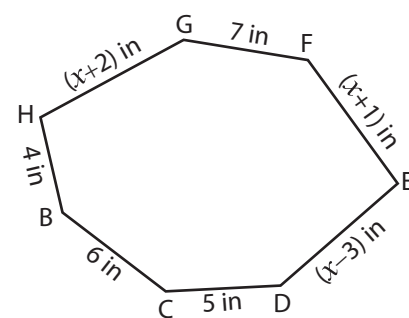
5)



Perimeter = 63 yd;  $x = \underline{\hspace{2cm}}$ ;

PQ =  $\underline{\hspace{2cm}}$ ; QR =  $\underline{\hspace{2cm}}$ ; TU =  $\underline{\hspace{2cm}}$

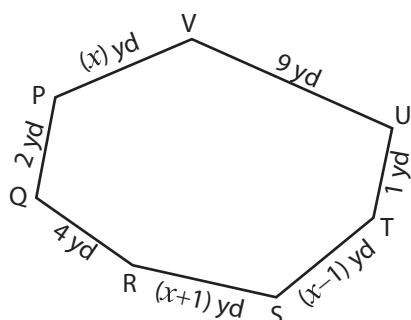
6)



Perimeter = 55 in;  $x = \underline{\hspace{2cm}}$ ;

DE =  $\underline{\hspace{2cm}}$ ; EF =  $\underline{\hspace{2cm}}$ ; GH =  $\underline{\hspace{2cm}}$

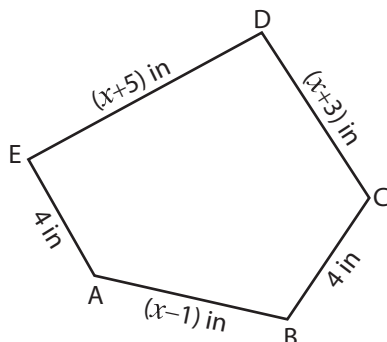
7)



Perimeter = 34 yd;  $x = \underline{\hspace{2cm}}$ ;

ST =  $\underline{\hspace{2cm}}$ ; PV =  $\underline{\hspace{2cm}}$ ; RS =  $\underline{\hspace{2cm}}$

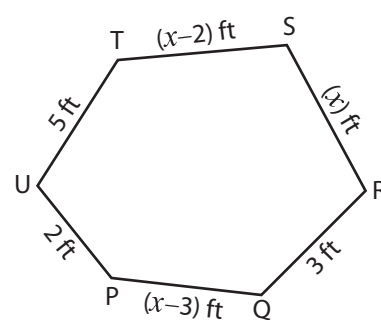
8)



Perimeter = 51 in;  $x = \underline{\hspace{2cm}}$ ;

AB =  $\underline{\hspace{2cm}}$ ; CD =  $\underline{\hspace{2cm}}$ ; DE =  $\underline{\hspace{2cm}}$

9)



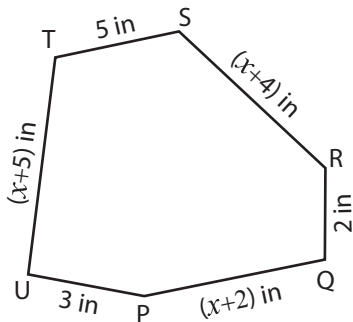
Perimeter = 29 ft;  $x = \underline{\hspace{2cm}}$ ;

PQ =  $\underline{\hspace{2cm}}$ ; RS =  $\underline{\hspace{2cm}}$ ; ST =  $\underline{\hspace{2cm}}$

# Polygons | Finding the Unknown Sides Answer Key

Find the value of  $x$ , and the length of the unknown sides.

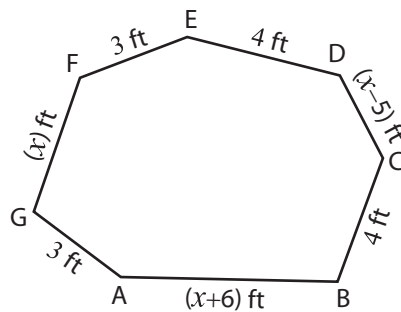
1)



Perimeter = 60 in;  $x = \underline{13}$  ;

PQ = 15 in ; SR = 17 in ; TU = 18 in

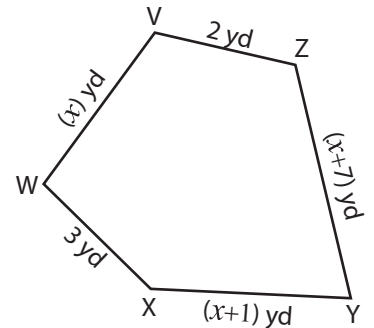
2)



Perimeter = 36 ft;  $x = \underline{7}$  ;

AB = 13 ft ; CD = 2 ft ; FG = 7 ft

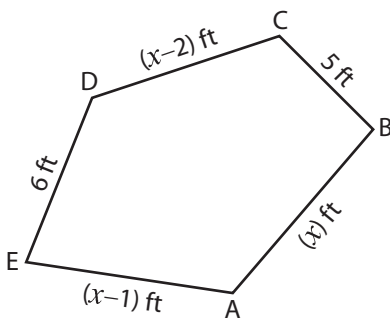
3)



Perimeter = 28 yd;  $x = \underline{5}$  ;

VW = 5 yd ; XY = 6 yd ; YZ = 12 yd

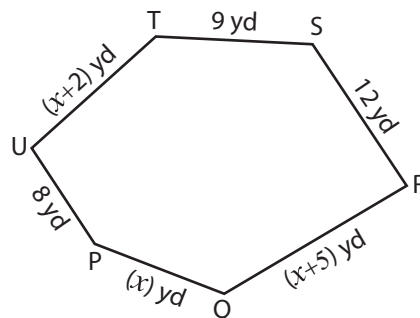
4)



Perimeter = 38 ft;  $x = \underline{10}$  ;

AB = 10 ft ; CD = 8 ft ; AE = 9 ft

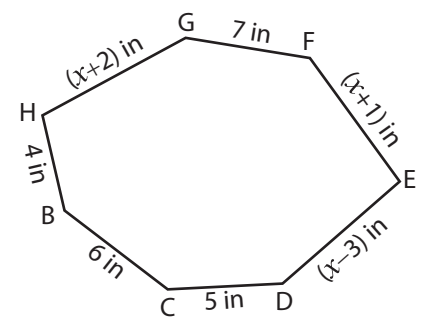
5)



Perimeter = 63 yd;  $x = \underline{9}$  ;

PQ = 9 yd ; QR = 14 yd ; TU = 11 yd

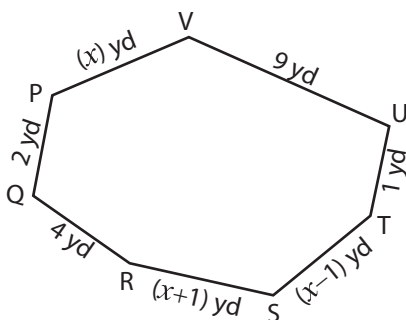
6)



Perimeter = 55 in;  $x = \underline{11}$  ;

DE = 8 in ; EF = 12 in ; GH = 13 in

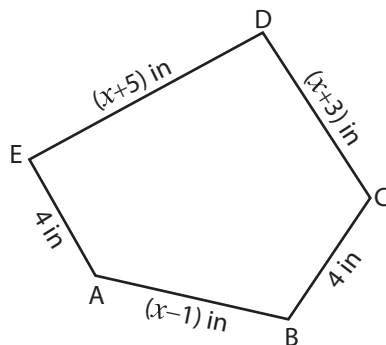
7)



Perimeter = 34 yd;  $x = \underline{6}$  ;

ST = 5 yd ; PV = 6 yd ; RS = 7 yd

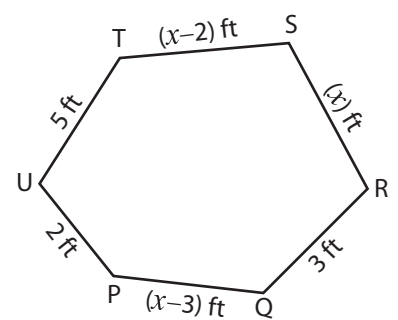
8)



Perimeter = 51 in;  $x = \underline{12}$  ;

AB = 11 in ; CD = 15 in ; DE = 17 in

9)



Perimeter = 29 ft;  $x = \underline{8}$  ;

PQ = 5 ft ; RS = 8 ft ; ST = 6 ft