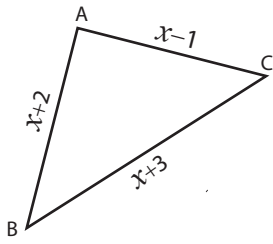


Triangle - Computing Sides

Example:



Perimeter = 16 in

Perimeter = Sum of length of the sides

$$16 \text{ in} = x - 1 + x + 2 + x + 3$$

$$16 \text{ in} = 3x + 4$$

$$3x = 16 - 4$$

$$x = \frac{12}{3} = 4 \text{ in}$$

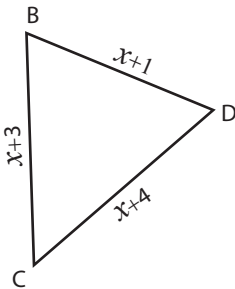
$$\overline{AB} = x + 2 = 4 + 2 = \mathbf{6 \text{ in}}$$

$$\overline{BC} = x + 3 = 4 + 3 = \mathbf{7 \text{ in}}$$

$$\overline{AC} = x - 1 = 4 - 1 = \mathbf{3 \text{ in}}$$

Find the value of x and compute the length of the sides for each triangle.

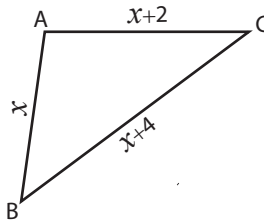
1)



Perimeter = 17 in ; $x =$ _____

$\overline{BC} =$ _____ ; $\overline{CD} =$ _____ ; $\overline{BD} =$ _____

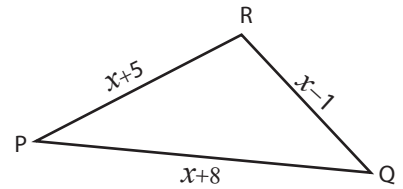
2)



Perimeter = 21 ft ; $x =$ _____

$\overline{AB} =$ _____ ; $\overline{BC} =$ _____ ; $\overline{AC} =$ _____

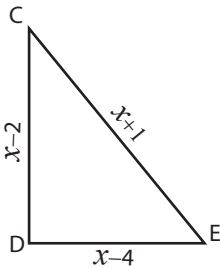
3)



Perimeter = 36 yd ; $x =$ _____

$\overline{PQ} =$ _____ ; $\overline{QR} =$ _____ ; $\overline{PR} =$ _____

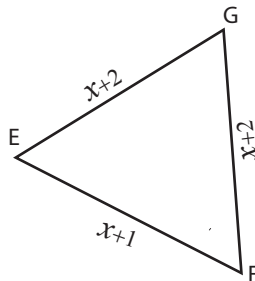
4)



Perimeter = 31 ft ; $x =$ _____

$\overline{CD} =$ _____ ; $\overline{DE} =$ _____ ; $\overline{CE} =$ _____

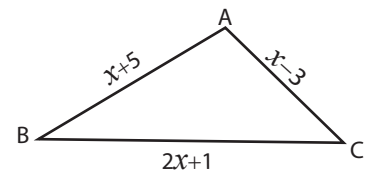
5)



Perimeter = 32 yd ; $x =$ _____

$\overline{EF} =$ _____ ; $\overline{FG} =$ _____ ; $\overline{EG} =$ _____

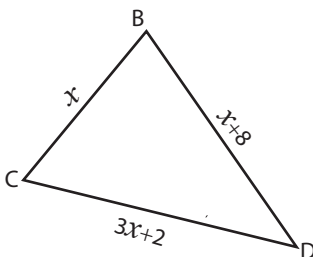
6)



Perimeter = 63 in ; $x =$ _____

$\overline{AB} =$ _____ ; $\overline{BC} =$ _____ ; $\overline{AC} =$ _____

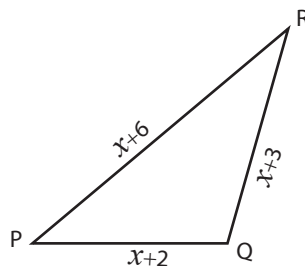
7)



Perimeter = 30 yd ; $x =$ _____

$\overline{BC} =$ _____ ; $\overline{CD} =$ _____ ; $\overline{BD} =$ _____

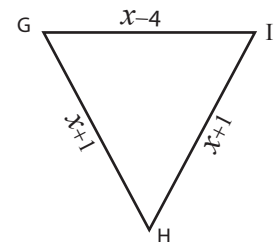
8)



Perimeter = 41 in ; $x =$ _____

$\overline{PQ} =$ _____ ; $\overline{QR} =$ _____ ; $\overline{PR} =$ _____

9)

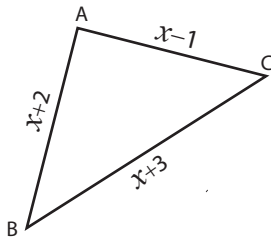


Perimeter = 40 ft ; $x =$ _____

$\overline{GH} =$ _____ ; $\overline{HI} =$ _____ ; $\overline{GI} =$ _____

Triangle - Computing Sides

Example:



Perimeter = 16 in

Perimeter = Sum of length of the sides

$16 \text{ in} = x - 1 + x + 2 + x + 3$

$16 \text{ in} = 3x + 4$

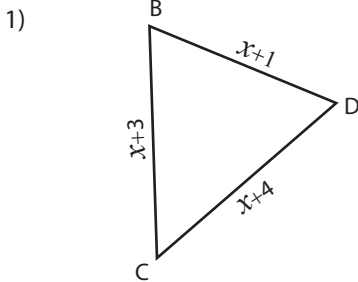
$3x = 16 - 4$

$x = \frac{12}{3} = 4 \text{ in}$

$\overline{AB} = x + 2 = 4 + 2 = 6 \text{ in}$

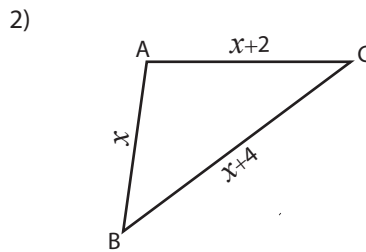
$\overline{BC} = x + 3 = 4 + 3 = 7 \text{ in}$

$\overline{AC} = x - 1 = 4 - 1 = 3 \text{ in}$

Find the value of x and compute the length of the sides for each triangle.

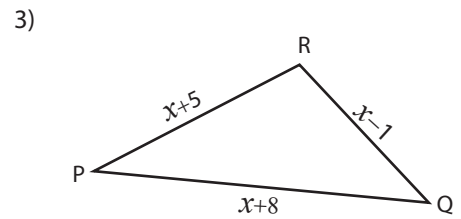
Perimeter = 17 in ; $x = 3 \text{ in}$

$\overline{BC} = 6 \text{ in}$; $\overline{CD} = 7 \text{ in}$; $\overline{BD} = 4 \text{ in}$



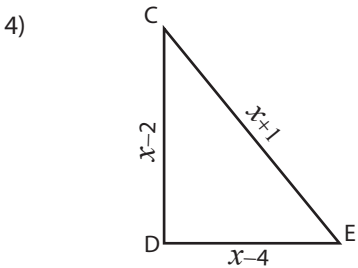
Perimeter = 21 ft ; $x = 5 \text{ ft}$

$\overline{AB} = 5 \text{ ft}$; $\overline{BC} = 9 \text{ ft}$; $\overline{AC} = 7 \text{ ft}$



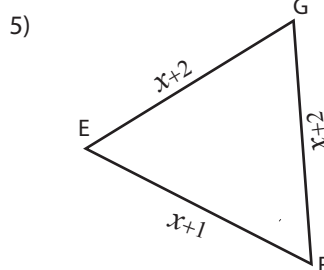
Perimeter = 36 yd ; $x = 8 \text{ yd}$

$\overline{PQ} = 16 \text{ yd}$; $\overline{QR} = 7 \text{ yd}$; $\overline{PR} = 13 \text{ yd}$



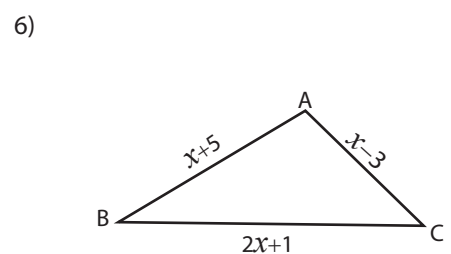
Perimeter = 31 ft ; $x = 12 \text{ ft}$

$\overline{CD} = 10 \text{ ft}$; $\overline{DE} = 8 \text{ ft}$; $\overline{CE} = 13 \text{ ft}$



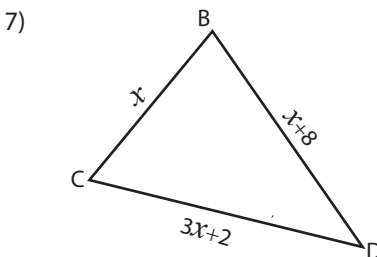
Perimeter = 32 yd ; $x = 9 \text{ yd}$

$\overline{EF} = 10 \text{ yd}$; $\overline{FG} = 11 \text{ yd}$; $\overline{EG} = 11 \text{ yd}$



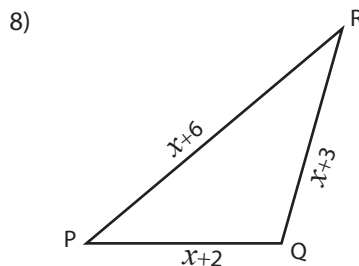
Perimeter = 63 in ; $x = 15 \text{ in}$

$\overline{AB} = 20 \text{ in}$; $\overline{BC} = 31 \text{ in}$; $\overline{AC} = 12 \text{ in}$



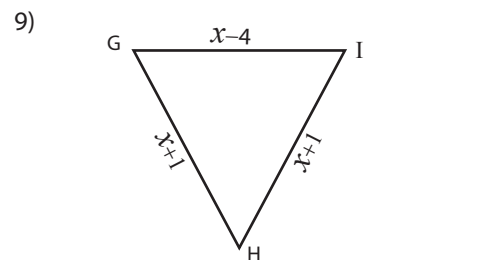
Perimeter = 30 yd ; $x = 4 \text{ yd}$

$\overline{BC} = 4 \text{ yd}$; $\overline{CD} = 14 \text{ yd}$; $\overline{BD} = 12 \text{ yd}$



Perimeter = 41 in ; $x = 10 \text{ in}$

$\overline{PQ} = 12 \text{ in}$; $\overline{QR} = 13 \text{ in}$; $\overline{PR} = 16 \text{ in}$



Perimeter = 40 ft ; $x = 14 \text{ ft}$

$\overline{GH} = 15 \text{ ft}$; $\overline{HI} = 15 \text{ ft}$; $\overline{GI} = 10 \text{ ft}$