

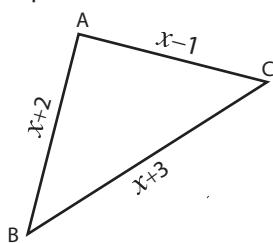
Name : _____

Score : _____

Triangle - Computing Sides

Sheet 1

Example:



Perimeter = 16 in

Perimeter = Sum of length of the sides

16 in = $x - 1 + x + 2 + x + 3$

16 in = $3x + 4$

3x = 16 - 4

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

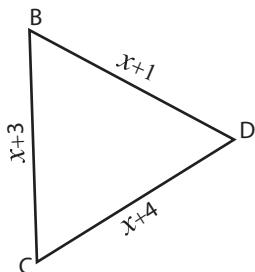
$\overline{AB} = x + 2 = 4 + 2 = 6$ in

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

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

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

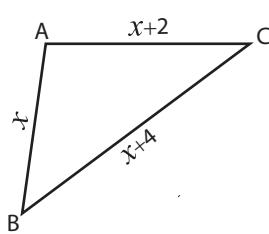
1)



Perimeter = 17 m ; $x =$ _____

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

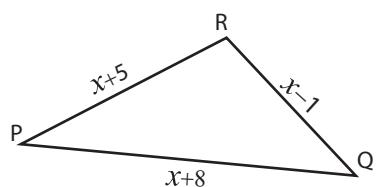
2)



Perimeter = 21 cm ; $x =$ _____

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

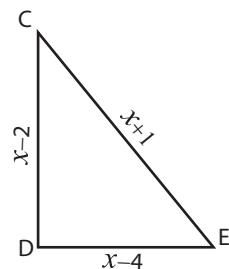
3)



Perimeter = 36 yd ; $x =$ _____

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

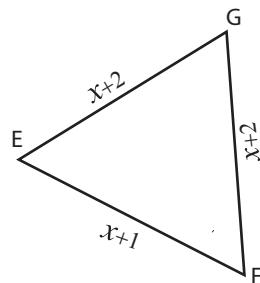
4)



Perimeter = 31 ft ; $x =$ _____

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

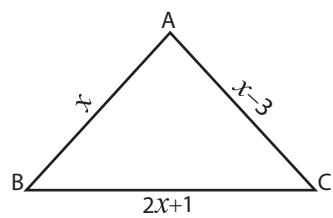
5)



Perimeter = 32 m ; $x =$ _____

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

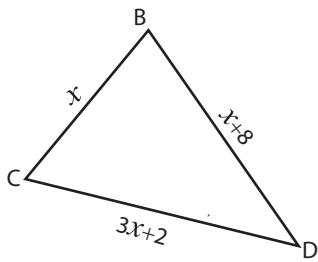
6)



Perimeter = 58 in ; $x =$ _____

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

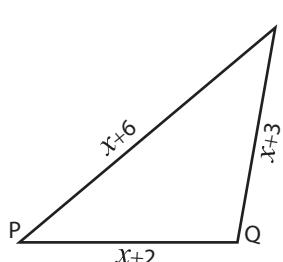
7)



Perimeter = 30 yd ; $x =$ _____

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

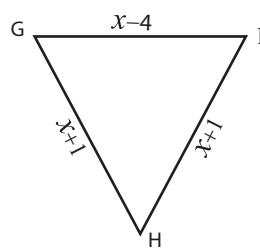
8)



Perimeter = 41 ft ; $x =$ _____

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

9)



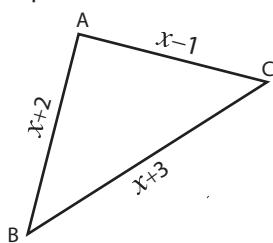
Perimeter = 40 cm ; $x =$ _____

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

Answer key**Triangle - Computing Sides**

Sheet 1

Example:



Perimeter = 16 in

Perimeter = Sum of length of the sides

16 in = $x - 1 + x + 2 + x + 3$

16 in = $3x + 4$

$3x = 16 - 4$

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

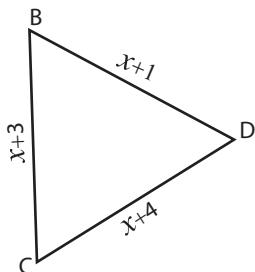
$\overline{AB} = x + 2 = 4 + 2 = 6$ in

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

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

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

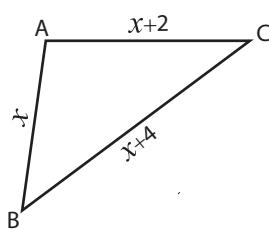
1)



Perimeter = 17 m ; $x = 3$ m

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

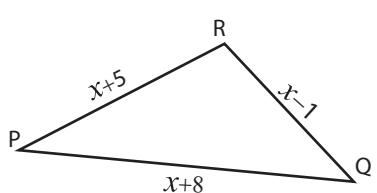
2)



Perimeter = 21 cm ; $x = 5$ cm

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

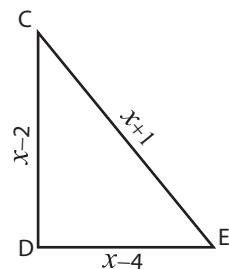
3)



Perimeter = 36 yd ; $x = 8$ yd

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

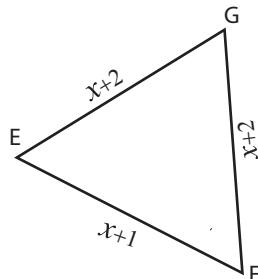
4)



Perimeter = 31 ft ; $x = 12$ ft

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

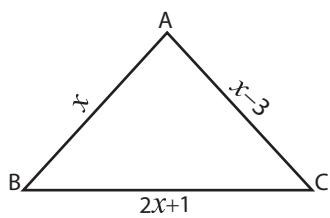
5)



Perimeter = 32 m ; $x = 9$ m

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

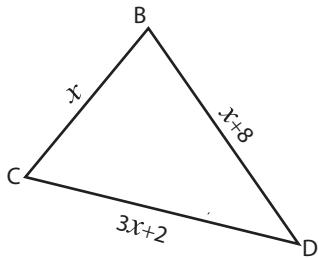
6)



Perimeter = 58 in ; $x = 15$ in

$\overline{AB} = 15$ in ; $\overline{BC} = 31$ in ; $\overline{AC} = 12$ in

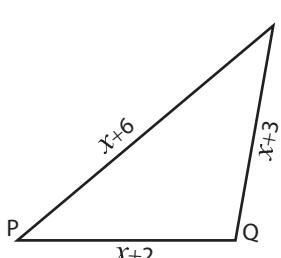
7)



Perimeter = 30 yd ; $x = 4$ yd

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

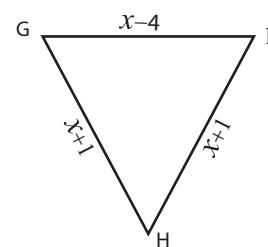
8)



Perimeter = 41 ft ; $x = 10$ ft

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

9)



Perimeter = 40 cm ; $x = 14$ cm

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