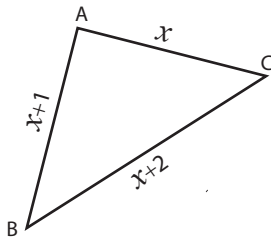


**Triangle - Computing Sides**

Example:



Perimeter = 12 ft

Perimeter = Sum of length of the sides

$$12 \text{ ft} = x + x + 1 + x + 2$$

$$12 \text{ ft} = 3x + 3$$

$$3x = 12 - 3$$

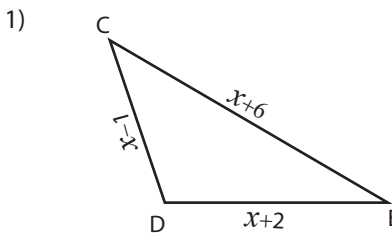
$$x = \frac{9}{3} = 3 \text{ ft}$$

$$\overline{AB} = x + 1 = 3 + 1 = 4 \text{ ft}$$

$$\overline{BC} = x + 2 = 3 + 2 = 5 \text{ ft}$$

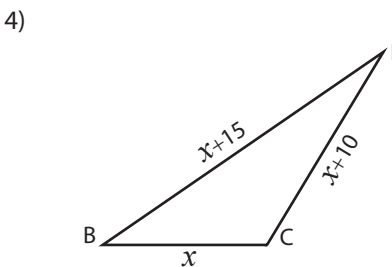
$$\overline{AC} = x = 3 \text{ ft}$$

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



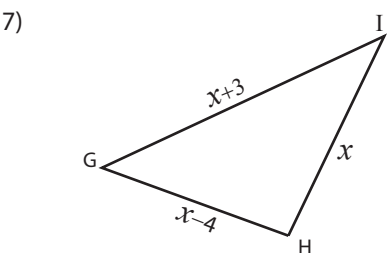
Perimeter = 25 ft ;  $x =$  \_\_\_\_\_

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



Perimeter = 85 yd ;  $x =$  \_\_\_\_\_

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



Perimeter = 32 in ;  $x =$  \_\_\_\_\_

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



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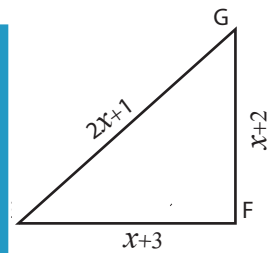
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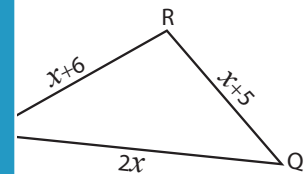
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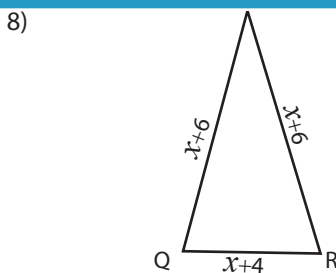
Perimeter = 34 in ;  $x =$  \_\_\_\_\_

$\overline{GF} =$  \_\_\_\_\_ ;  $\overline{FE} =$  \_\_\_\_\_ ;  $\overline{EG} =$  \_\_\_\_\_



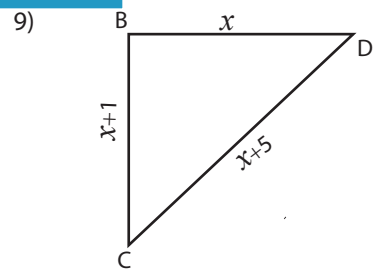
Perimeter = 47 ft ;  $x =$  \_\_\_\_\_

$\overline{QR} =$  \_\_\_\_\_ ;  $\overline{RP} =$  \_\_\_\_\_



Perimeter = 40 ft ;  $x =$  \_\_\_\_\_

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

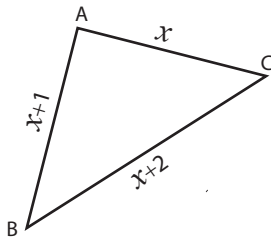


Perimeter = 48 yd ;  $x =$  \_\_\_\_\_

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

**Triangle - Computing Sides**

Example:



Perimeter = 12 ft

Perimeter = Sum of length of the sides

$$12 \text{ ft} = x + x + 1 + x + 2$$

$$12 \text{ ft} = 3x + 3$$

$$3x = 12 - 3$$

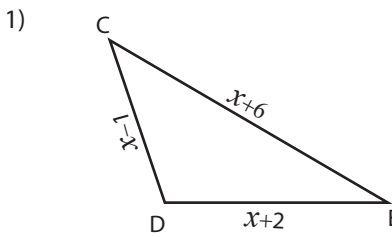
$$x = \frac{9}{3} = 3 \text{ ft}$$

$$\overline{AB} = x + 1 = 3 + 1 = 4 \text{ ft}$$

$$\overline{BC} = x + 2 = 3 + 2 = 5 \text{ ft}$$

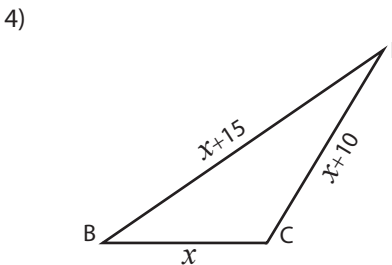
$$\overline{AC} = x = 3 \text{ ft}$$

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



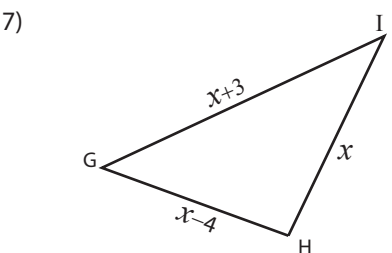
Perimeter = 25 ft ;  $x = 6$  ft

$\overline{CD} = 5$  ft ;  $\overline{DE} = 8$  ft ;  $\overline{CE} = 12$  ft



Perimeter = 85 yd ;  $x = 20$  yd

$\overline{BC} = 20$  yd ;  $\overline{CD} = 30$  yd ;  $\overline{BD} = 50$  yd



Perimeter = 32 in ;  $x = 11$  in

$\overline{GH} = 7$  in ;  $\overline{HI} = 11$  in ;  $\overline{GI} = 14$  in



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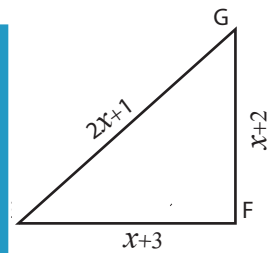
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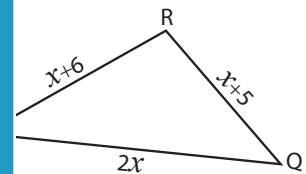
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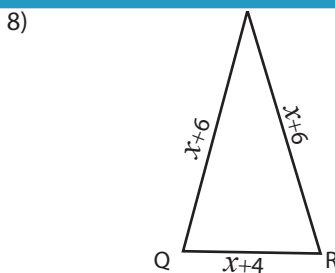
Perimeter = 34 in ;  $x = 7$  in

$\overline{GE} = 10$  in ;  $\overline{GF} = 9$  in ;  $\overline{EG} = 15$  in



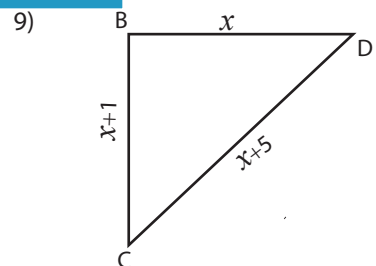
Perimeter = 47 ft ;  $x = 9$  ft

$\overline{RQ} = 18$  ft ;  $\overline{QR} = 14$  ft ;  $\overline{PR} = 15$  ft



Perimeter = 40 ft ;  $x = 8$  ft

$\overline{PQ} = 14$  ft ;  $\overline{QR} = 12$  ft ;  $\overline{PR} = 14$  ft



Perimeter = 48 yd ;  $x = 14$  yd

$\overline{BC} = 15$  yd ;  $\overline{CD} = 19$  yd ;  $\overline{BD} = 14$  yd