

# Building Blocks - Forming Equations with Angles

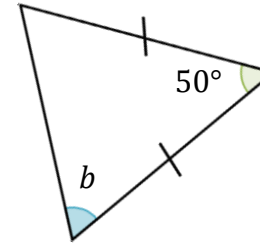
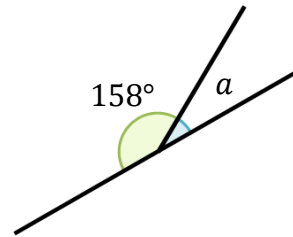


## Block 1

Collect the like terms

- $7y - 3y + y$
- $6h + 3 + 5h + 6$
- $8x - 2 + x + 8 - 4x$

Find the missing angles.



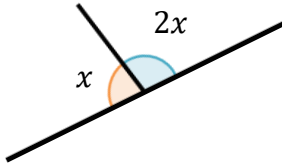
Solve the equations

- $7x = 63$
- $3k + 5 = 26$
- $9p - 7 = 5p + 1$

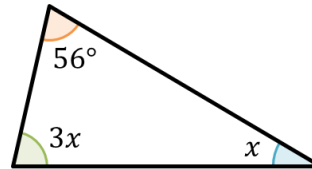
## Block 2

Form and solve an equation for the following.

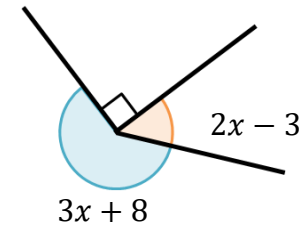
a)



b)

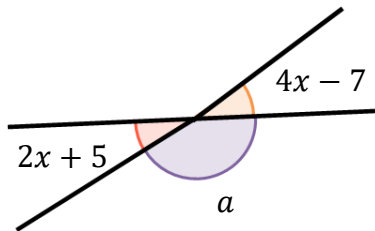


c)

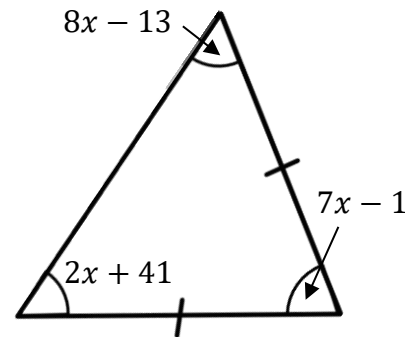


## Block 3

Find the size of angle  $a$ .



Work out the smallest angle in the triangle.



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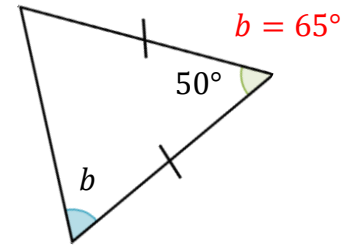
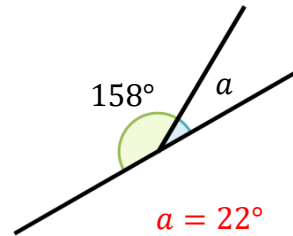


## Block 1

Collect the like terms

- $7y - 3y + y$      $5y$
- $6h + 3 + 5h + 6$      $11h + 9$
- $8x - 2 + x + 8 - 4x$      $5x + 6$

Find the missing angles.



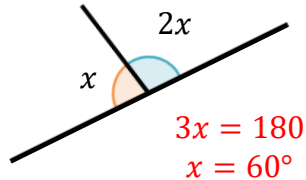
Solve the equations

- $7x = 63$      $x = 9$
- $3k + 5 = 26$      $k = 7$
- $9p - 7 = 5p + 1$      $p = 2$

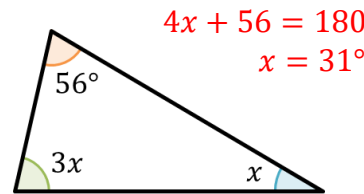
## Block 2

Form and solve an equation for the following.

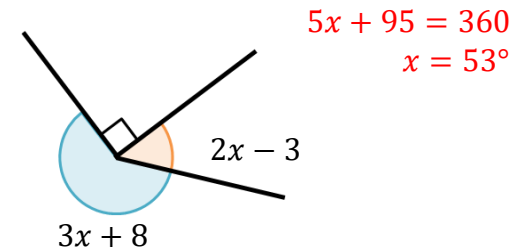
a)



b)

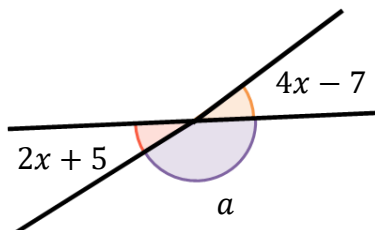


c)



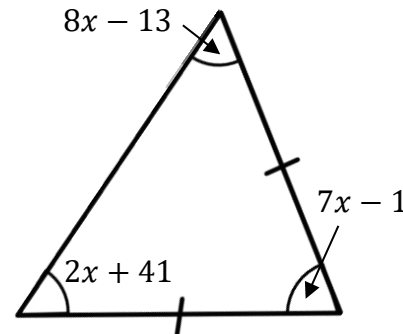
## Block 3

Find the size of angle  $a$ .



$$\begin{aligned}
 4x - 7 &= 2x + 5 \\
 2x &= 12 \\
 x &= 6 \\
 2(6) + 5 &= 17 \\
 a &= 180 - 17 = 153^\circ
 \end{aligned}$$

Work out the smallest angle in the triangle.



$$\begin{aligned}
 8x - 13 &= 2x + 41 \\
 6x &= 54 \\
 x &= 9 \\
 \text{Largest angle} &= 7x - 1 \\
 &= 62^\circ
 \end{aligned}$$