

# M3 = 12 days to go!

3 In the diagram lines AB and CD are parallel.

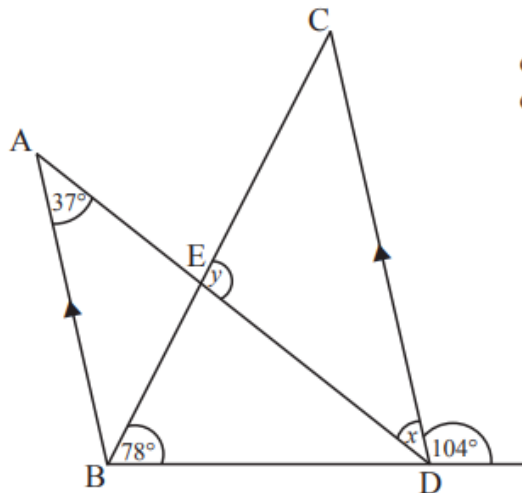


diagram not drawn accurately

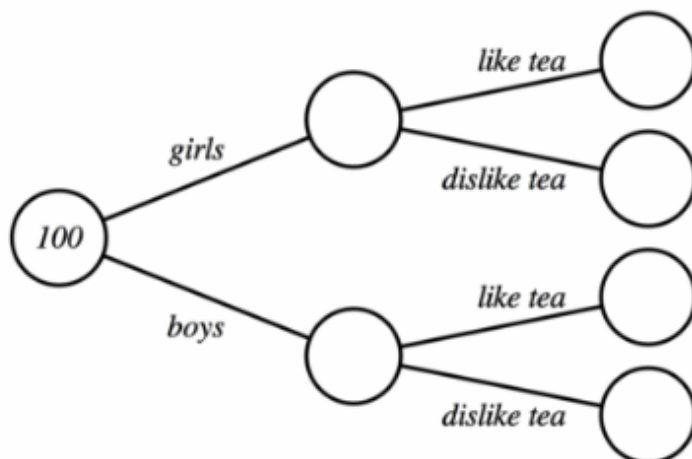
(a) Find the size of the angle  $x$ .

Answer \_\_\_\_\_° [1]

(b) Calculate the size of the angle  $y$ .

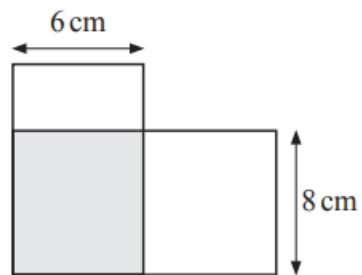
Answer \_\_\_\_\_° [2]

1) 100 students are asked if they like tea.  
 45 of these students are boys.  
 28 girls like tea.  
 19 boys dislike tea.  
 Complete the frequency tree.



12 A  $10\text{ cm} \times 6\text{ cm}$  rectangular card overlaps a  $12\text{ cm} \times 8\text{ cm}$  card as shown.

Calculate the area **not** shaded.



Answer \_\_\_\_\_  $\text{cm}^2$  [2]

15 A Christmas Log cake has a uniform cross-sectional area of  $120\text{ cm}^2$  and a length of 22 cm.

Calculate the volume of the cake.

Answer \_\_\_\_\_  $\text{cm}^3$  [2]

1  $d = \frac{e-f}{g}$

Calculate the value of  $d$  when  $e = -8$ ,  $f = 12$  and  $g = 4$

Answer  $d =$  \_\_\_\_\_ [2]