



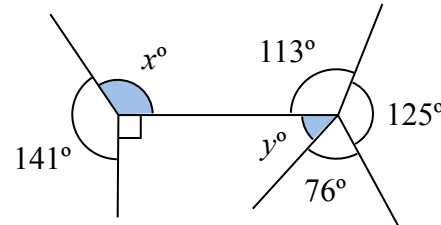
## ANGLE

### NO PROTRACTOR

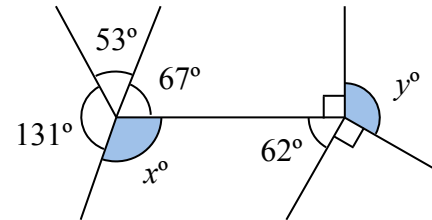
Ref: G421. **2S1**

**A1** Three angles measure  $97^\circ$ ,  $145^\circ$  and  $118^\circ$ .  
Do these three angles fit exactly around a point?  
Explain your answer.

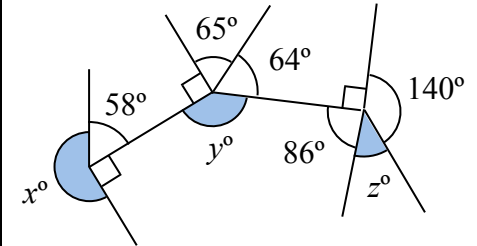
**A2** Find the values of  $x$  and  $y$



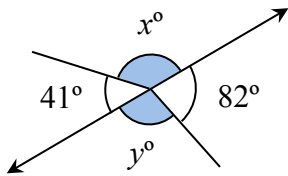
**A3** Find the values of  $x$  and  $y$



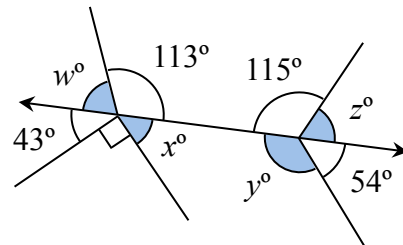
**A4** Find the values of  $x$ ,  $y$  and  $z$



**B1** Find the values of  $x$  and  $y$

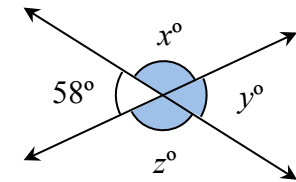


**B2** Find the values of  $w$ ,  $x$ ,  $y$  and  $z$

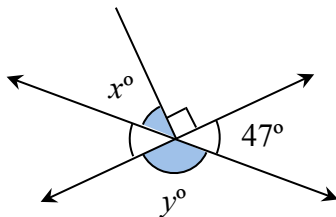


**B3** Five angles measure  $78^\circ$ ,  $95^\circ$ ,  $113^\circ$ ,  $162^\circ$  and  $187^\circ$ .  
Which of them can be put together to fit exactly around a point?

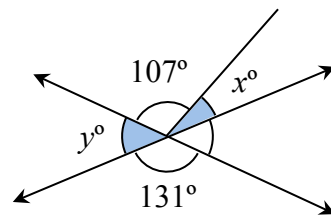
**B4** Find the values of  $x$ ,  $y$  and  $z$



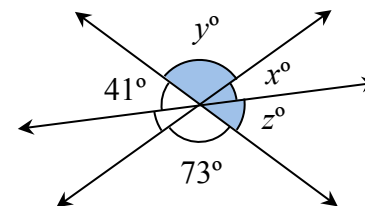
**C1** Find the values of  $x$  and  $y$



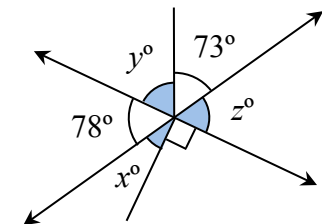
**C2** Find the values of  $x$  and  $y$



**C3** Find the values of  $x$ ,  $y$  and  $z$



**C4** Find the values of  $x$ ,  $y$  and  $z$





## ANGLE

### ANGLES AROUND A POINT

### NO PROTRACTOR

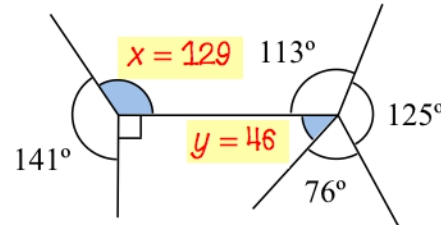
Ref: G421. **2S1**

**A1** Three angles measure  $97^\circ$ ,  $145^\circ$  and  $118^\circ$ .  
Do these three angles fit exactly around a point?  
Explain your answer.

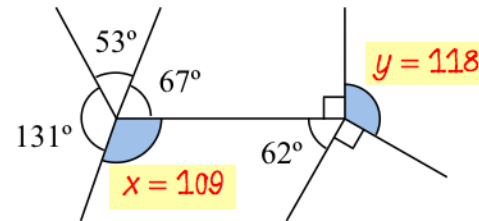
**Yes.**

Because their total is  $360^\circ$ .

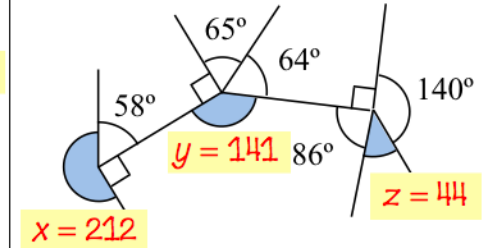
**A2** Find the values of  $x$  and  $y$



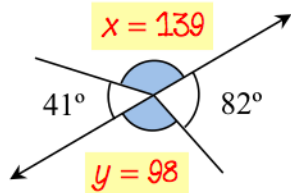
**A3** Find the values of  $x$  and  $y$



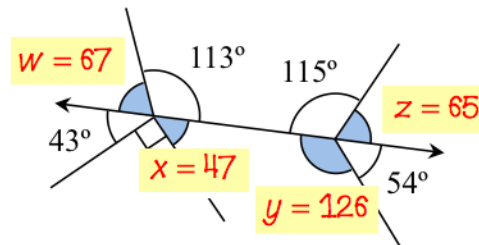
**A4** Find the values of  $x$ ,  $y$  and  $z$



**B1** Find the values of  $x$  and  $y$



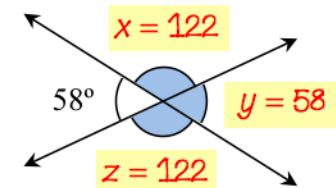
**B2** Find the values of  $w$ ,  $x$ ,  $y$  and  $z$



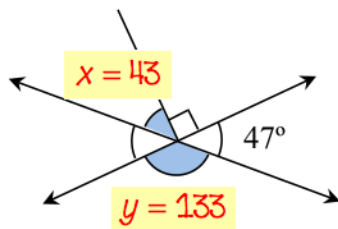
**B3** Five angles measure  $78^\circ$ ,  $95^\circ$ ,  $113^\circ$ ,  $162^\circ$  and  $187^\circ$ .  
Which of them can be put together to fit exactly around a point?

$78^\circ, 95^\circ$  and  $187^\circ$

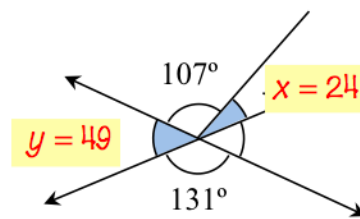
**B4** Find the values of  $x$ ,  $y$  and  $z$



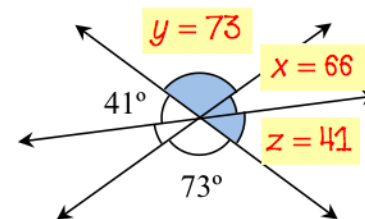
**C1** Find the values of  $x$  and  $y$



**C2** Find the values of  $x$  and  $y$



**C3** Find the values of  $x$ ,  $y$  and  $z$



**C4** Find the values of  $x$ ,  $y$  and  $z$

