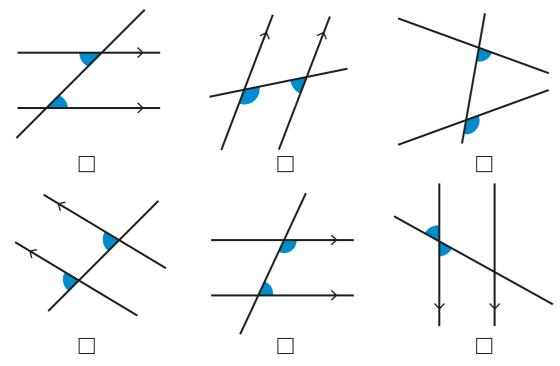
## Identify and calculate with co-interior, alternate and corresponding angles

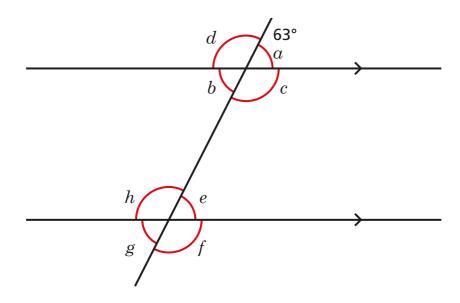


Which pairs of angles are equal? Tick your answers.



Discuss your answers with a partner.

a) Work out the sizes of the unknown angles and label them on the diagram.



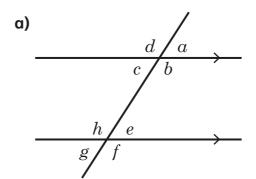
b)	Angles $c$ and $e$ are co-interior.
	What is the sum of angles $c$ and $e$ ?

c) Angles b and h are also co-interior.

	What is the sum of angles $b$ and $h$ ?	
d)	What do you notice?	
e)	Complete the sentence.	

3 Complete the sentences.

Co-interior angles \_\_

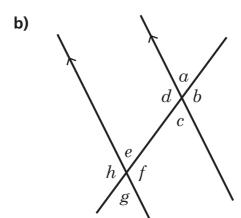


Angles  $\emph{c}$  and \_\_\_\_\_ are co-interior.

Angles e and \_\_\_\_\_ are co-interior.

Angles h and \_\_\_\_ are co-interior.

Angles b and \_\_\_\_ are co-interior.

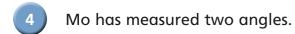


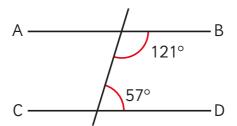
Angles e and a are \_\_\_\_\_

Angles  $\emph{e}$  and  $\emph{d}$  are \_\_\_\_\_

Angles e and c are \_\_\_\_\_

Angles e and g are  $\_$ 



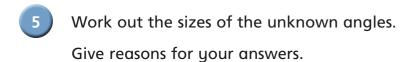


CD parallel? \_\_\_\_\_

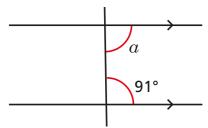
Explain your answer.

a) Are line segments AB and

**b)** Eva says, "I think they could be parallel." Why might Eva think this?

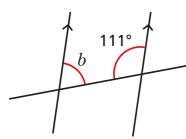


a)



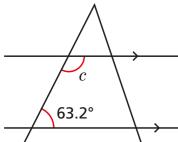
because \_

b)



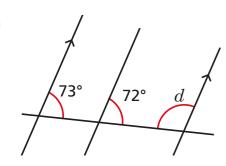
because \_

c)



because \_

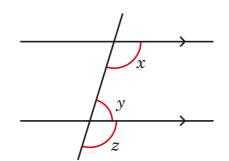
d)



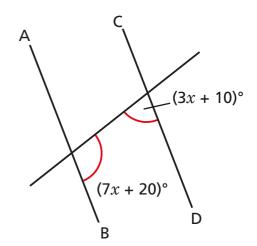
because \_

$$x:y = 2:1$$

Work out the size of angle z.



Discuss your reasoning with a partner.



a) Show that line segments AB and CD are not parallel when x=12Explain your answer.

**b)** Line segments AB and CD are parallel. Work out the sizes of the angles and label them on the diagram.

Discuss your method with a partner.

