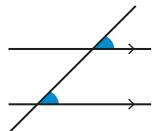
Understand and use parallel line angle rules



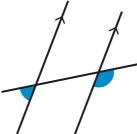


Are the pairs of angles alternate, corresponding or neither?

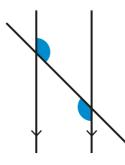
a)



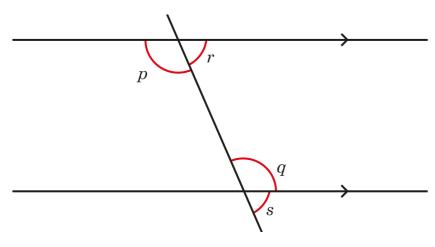
o)



c)



2 Four angles are labelled on the diagram.



a) p and q are alternate angles. Measure the size of each angle and label them on the diagram.

What do you notice?

b) Complete the sentence.

Alternate angles are _____

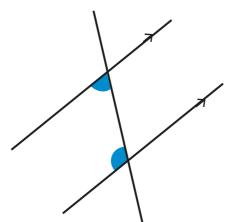
c) r and s are corresponding angles. Measure the size of each angle and label them on the diagram.

What do you notice?

d) Complete the sentence.

Corresponding angles are _____



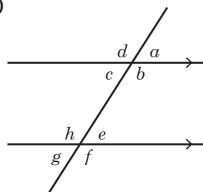


- a) Measure the size of each angle.
 Label them on the diagram.
- What do you notice?
 b) Complete the sentence.

Co-interior angles _____



a)



Angle a is vertically opposite angle _____

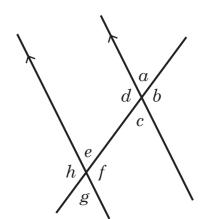
Angle a is corresponding to angle _____

Angle h is alternate to angle _____

Angle h is corresponding to angle _____

Angle h is vertically opposite angle _____

b)



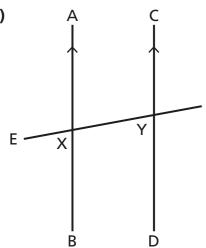
Angles d and _____ are adjacent angles on a straight line.

Angles d and $___$ are alternate angles.

Angles $___$ and d are corresponding angles.

Angles d and $___$ are vertically opposite angles.

c)



∠AXF is alternate to _____

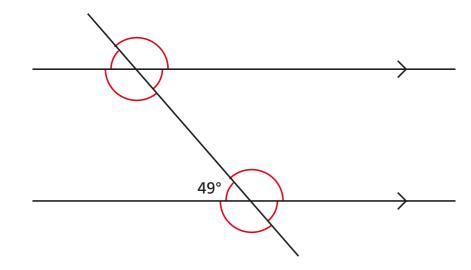
∠AXF is corresponding to _____

∠DYF is corresponding to _____

∠DYF is vertically opposite to _____

∠AXF and _____ are adjacent angles on a straight line.

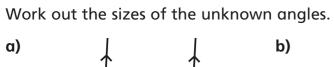
Work out the sizes of the unknown angles and label them on the diagram.

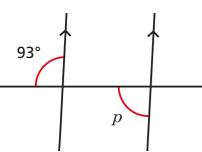


Compare your thinking with a partner.

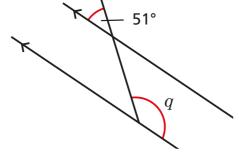
Did you work them out the same way?





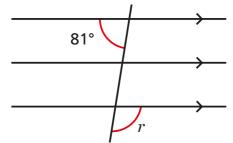




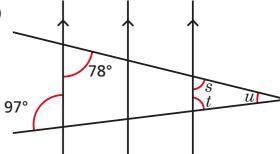


$$q =$$

c)



d)

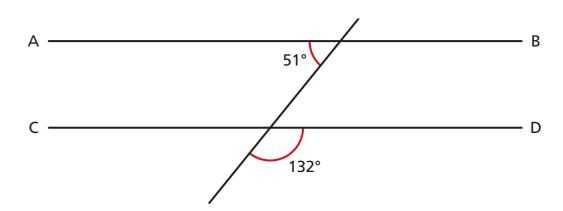


$$s =$$
 $u =$

$$t =$$

Discuss your reasons with a partner.

7



Are line segments AB and CD parallel?	_
Explain your answer	

