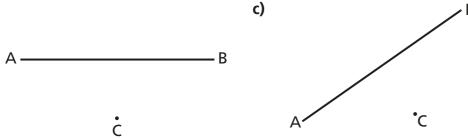
Investigate angles between parallel lines and the transversal



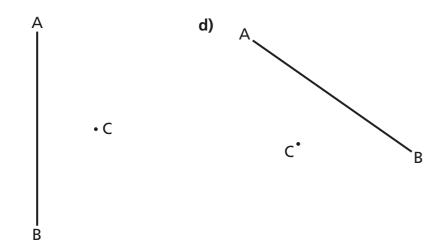
For each diagram, draw a line segment that is parallel to AB and goes through point C.

Draw on the diagrams to indicate that the lines are parallel.

a)

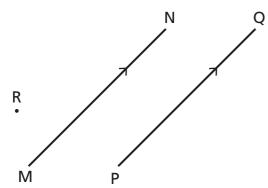


b)





Draw a transversal that cuts through the parallel lines and goes through point R.

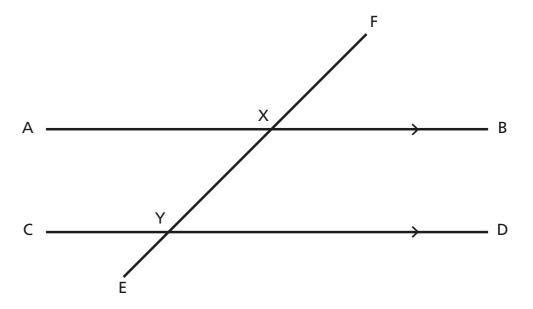






3 Line segments AB and CD are parallel.

Line segment EF is a transversal that intersects the line segments at points X and Y respectively.



a) Measure the size of each angle.

Compare answers with a partner.

What do you notice?

b) Complete the sentences.

Angle AXE is alternate to angle _____

Angle AXE is corresponding to angle _____

Angle BXF is corresponding to angle _____

Angle CYF is alternate to angle _____

no	ne segment UV is a transversal that intersects the line segments at ints X and Y respectively.	
	Draw a diagram to represent this.	
b)	Compare your diagram with a partner's diagram. Do they look the same? Does it matter? Why? Eight angles are formed. Measure the size of each angle and label them on the diagram.	
	Compare answers with a partner. What is the same and what is different?	
c)	Identify two pairs of alternate angles and two pairs of corresponding angles.	

A B
$C \xrightarrow{D} \xrightarrow{E} F$
G H I
$K \xrightarrow{L} M$
O P

a)	Complete	the	sentence	in	two	walls
u,	Complete	uic	30111011100	111	LVVO	wuus.

Line segments _____ and ____ are parallel.

Line segments ____ and ____ are parallel.

b) Complete the sentence.

GJ is a ______ that intersects the line segments _____ and ____

c) Identify four pairs of alternate angles.

d) Identify four pairs of corresponding angles.

e)

Angles GHO and ALN are alternate angles.



Do you agree with Dora? _____
Explain your answer.



