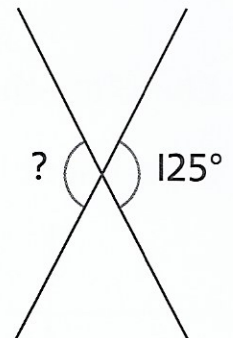
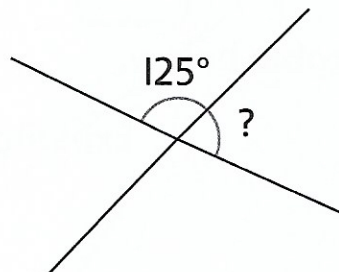
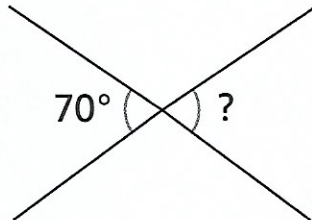
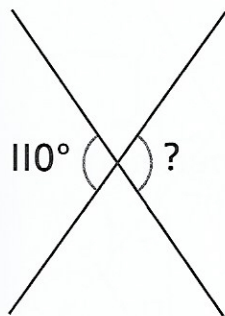


Vertically opposite angles

1 Draw lines to match each diagram with the missing angle.



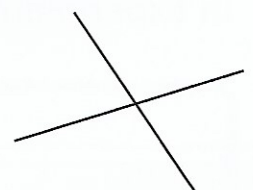
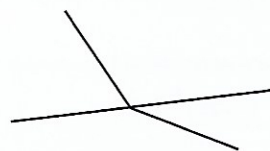
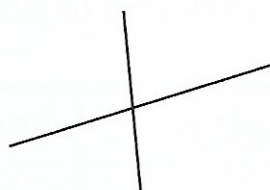
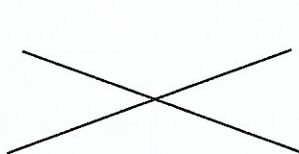
70°

110°

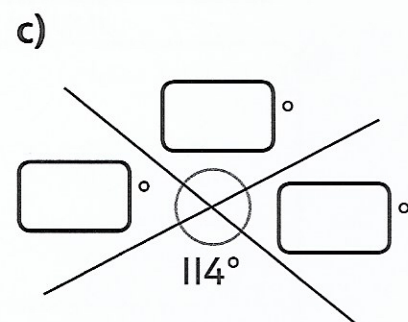
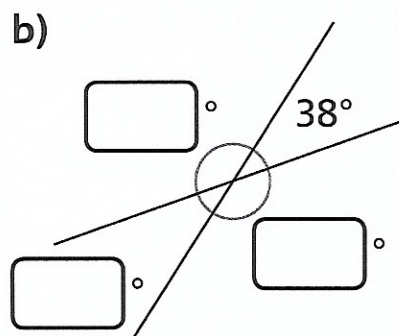
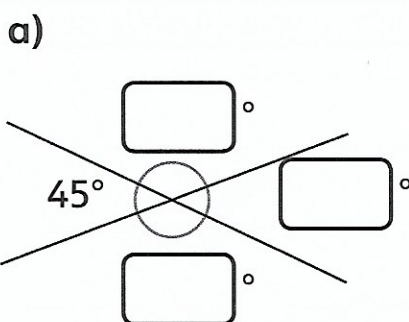
55°

125°

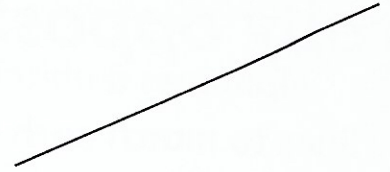
2 Circle the diagram that does **not** show vertically opposite angles.



3 Calculate each of the missing angles below.

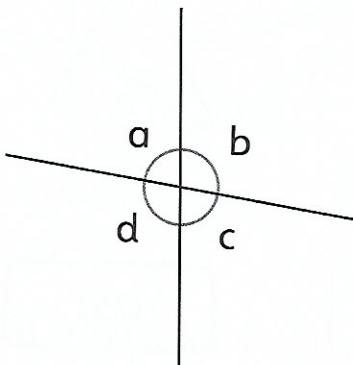


- 4 Draw a line so that there are two 135° angles.

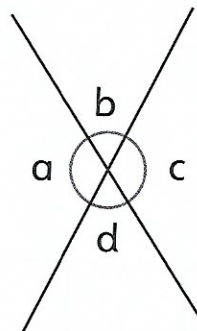


- 5 Complete the table below.

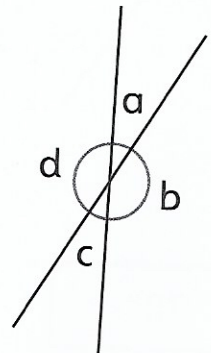
Experiment 1



Experiment 2



Experiment 3



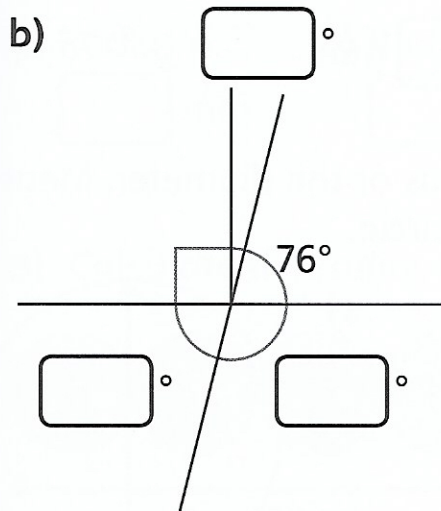
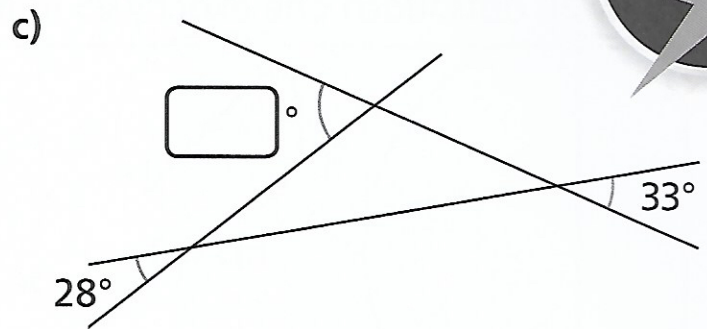
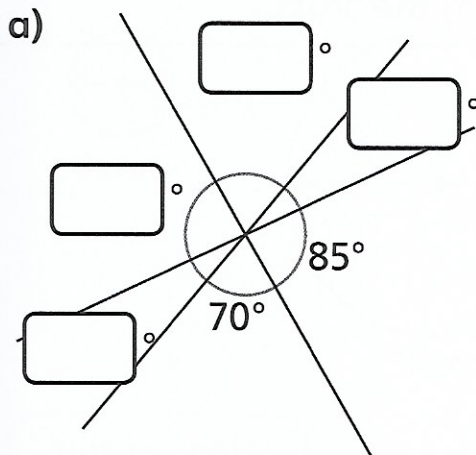
In Experiment 1, angle a is 20° less than angle b .

In Experiment 2, angle a is twice as large as angle b .

In Experiment 3, angle a is one fifth the size of angle d .

	Angle a	Angle b	Angle c	Angle d
Experiment 1				
Experiment 2				
Experiment 3				



CHALLENGE**6** Calculate the missing angles.

Reflect

Describe in words why vertically opposite angles must be equal.

