

Vertically opposite angles



Identify and name vertically opposite angles

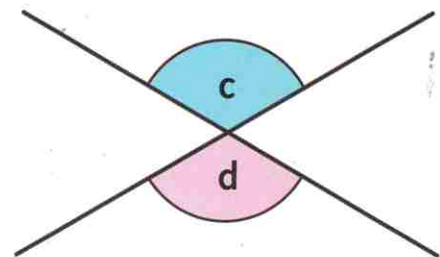
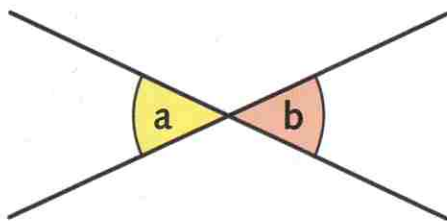
Challenge 1

1 For each diagram:

- Use your protractor to measure the two angles marked with an arc.
- Write the size of each angle to the nearest degree.

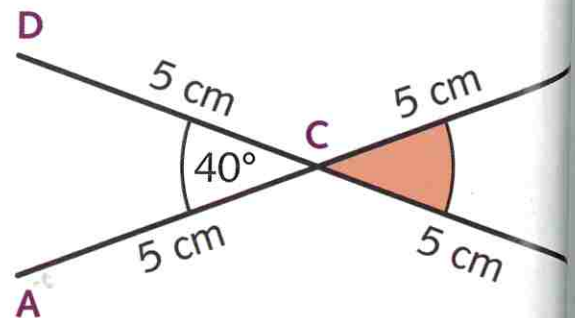
You will need:

- ruler
- protractor



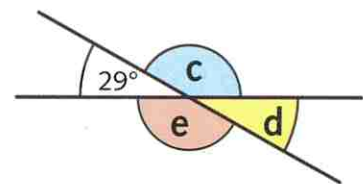
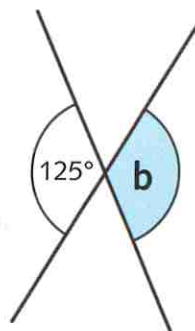
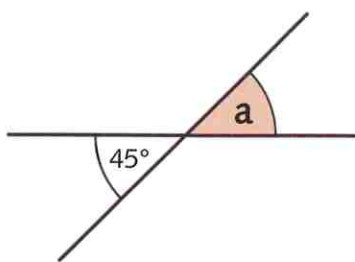
2 Use your ruler and protractor to make an accurate copy of the diagram, using the instructions below.

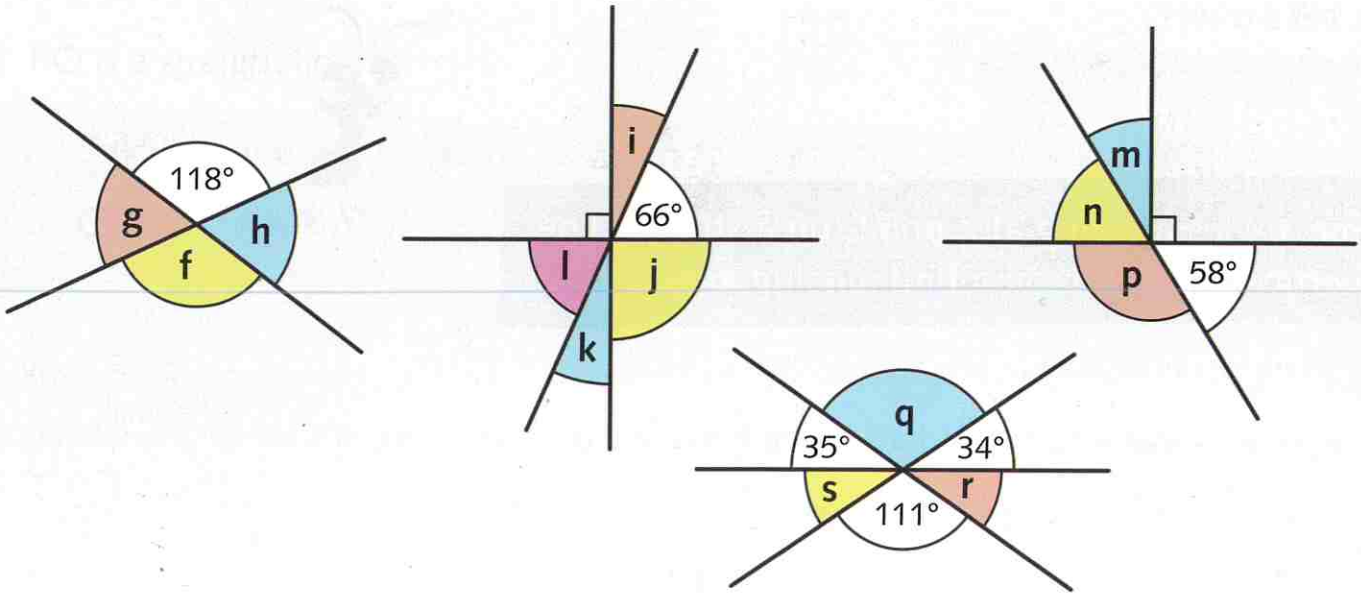
- Draw line AB 10 cm long.
- C is the midpoint of the line AB.
- Draw an angle of 40° at C.
- Draw line DE 10 cm long.
- Write the size of the coloured angle.



Challenge 2

1 Calculate the size of each coloured angle, a to s.

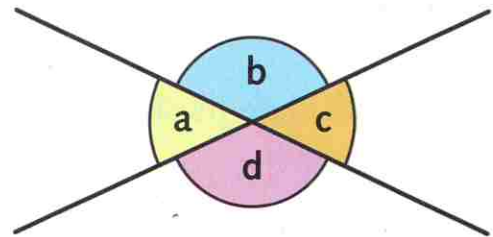




2 The diagram below shows the angles **a**, **b**, **c** and **d** at the intersection of two straight lines.

- Copy the table showing three values for angle **a**.
- For each value of angle **a**, calculate the size of angles **b**, **c** and **d**.

Angle a	Angle b	Angle c	Angle d
65°			
78°			
23°			



Use the information in the diagram to calculate the size of each angle, **a** to **f**.

