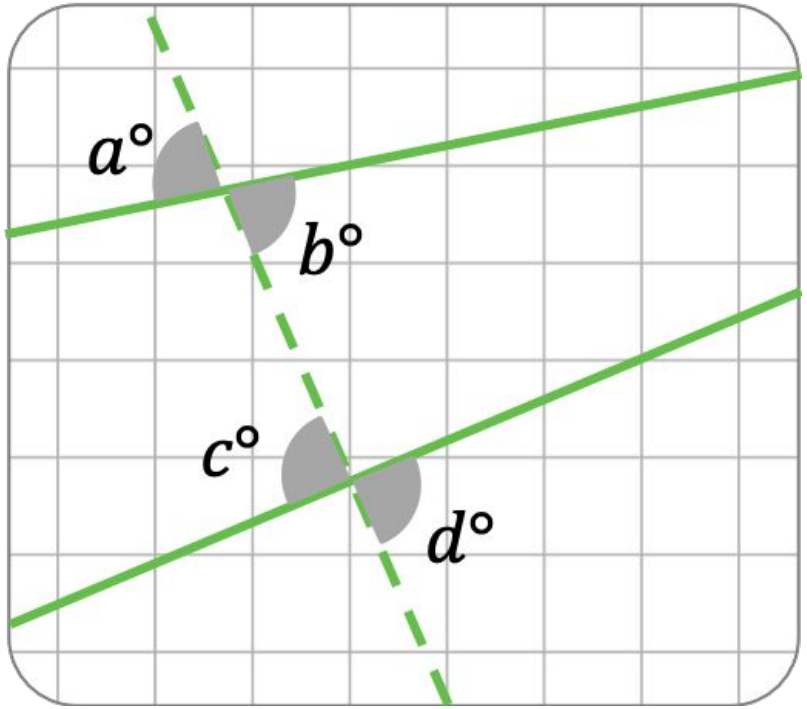
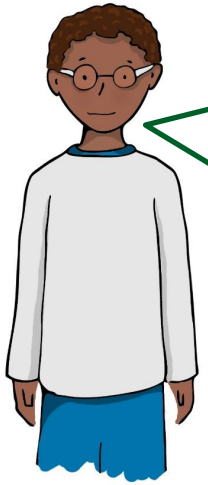
Try this

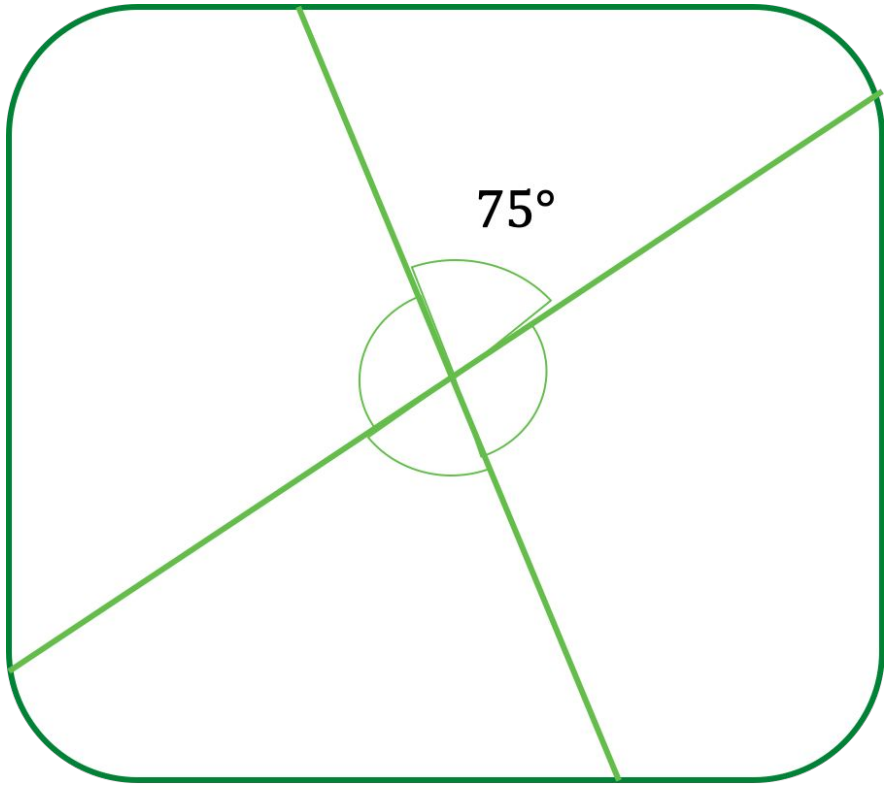


1. What is the relationship between angle b and and d is the lines intersect to the left of the dotted line?
2. What is the relationship between angle b and angle d if the lines do not intersect?
3. What is the relationship between angle b and angle c if the lines do not intersect?



When angle a is less than angle c the lines intersect on the right of the dotted line

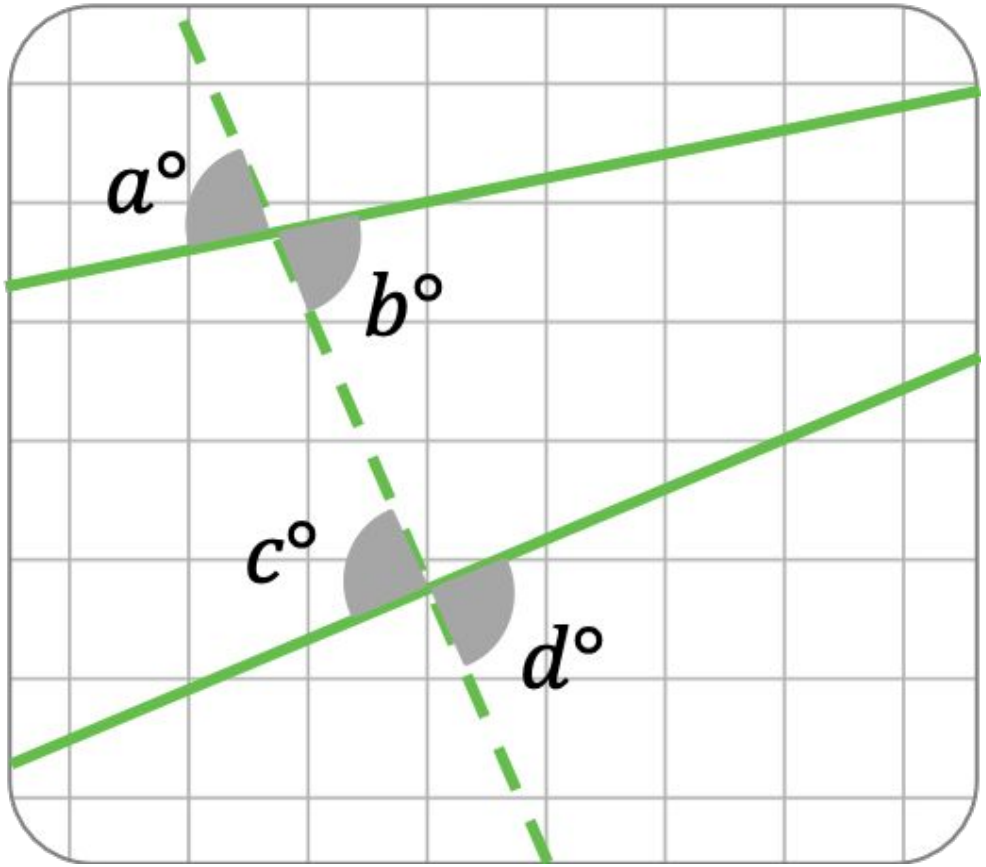
Connect



Can you state the size of all the missing angles in this diagram?

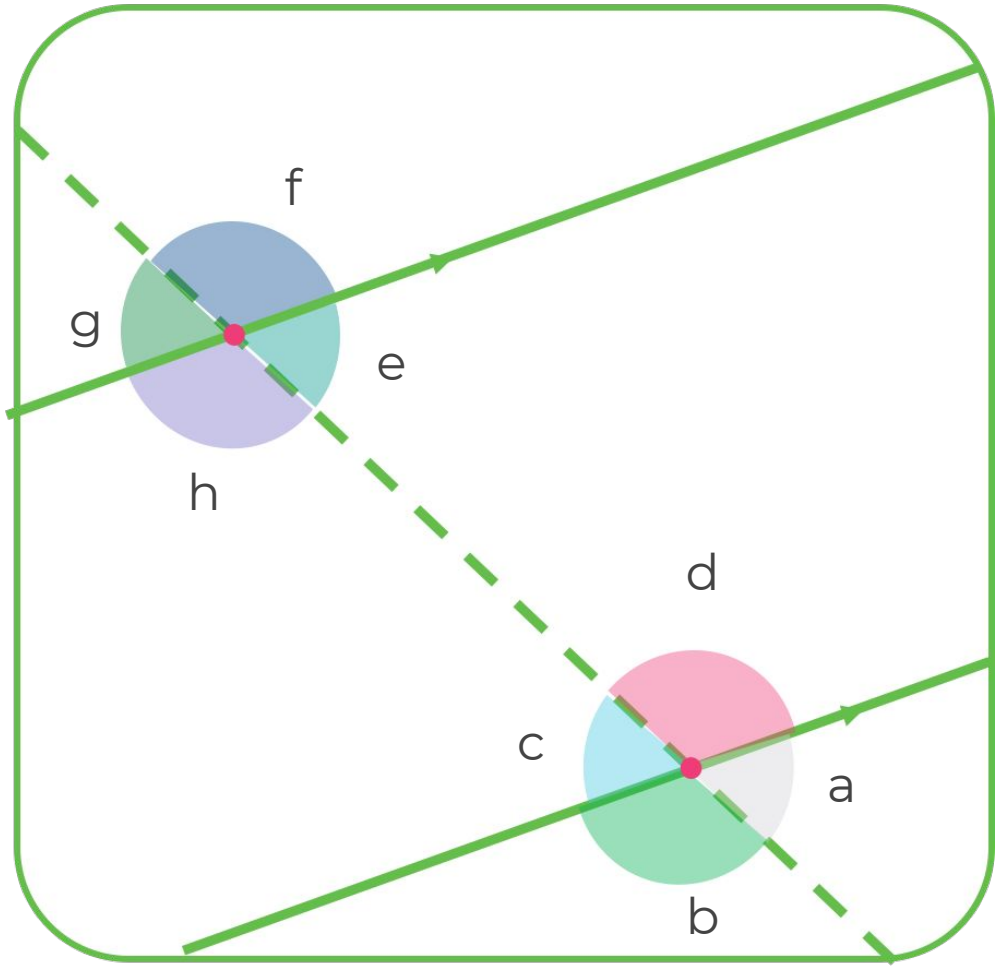
How did you find them?

Connect



What is the relationship between angle b and angle c if the lines do not intersect?

Connect

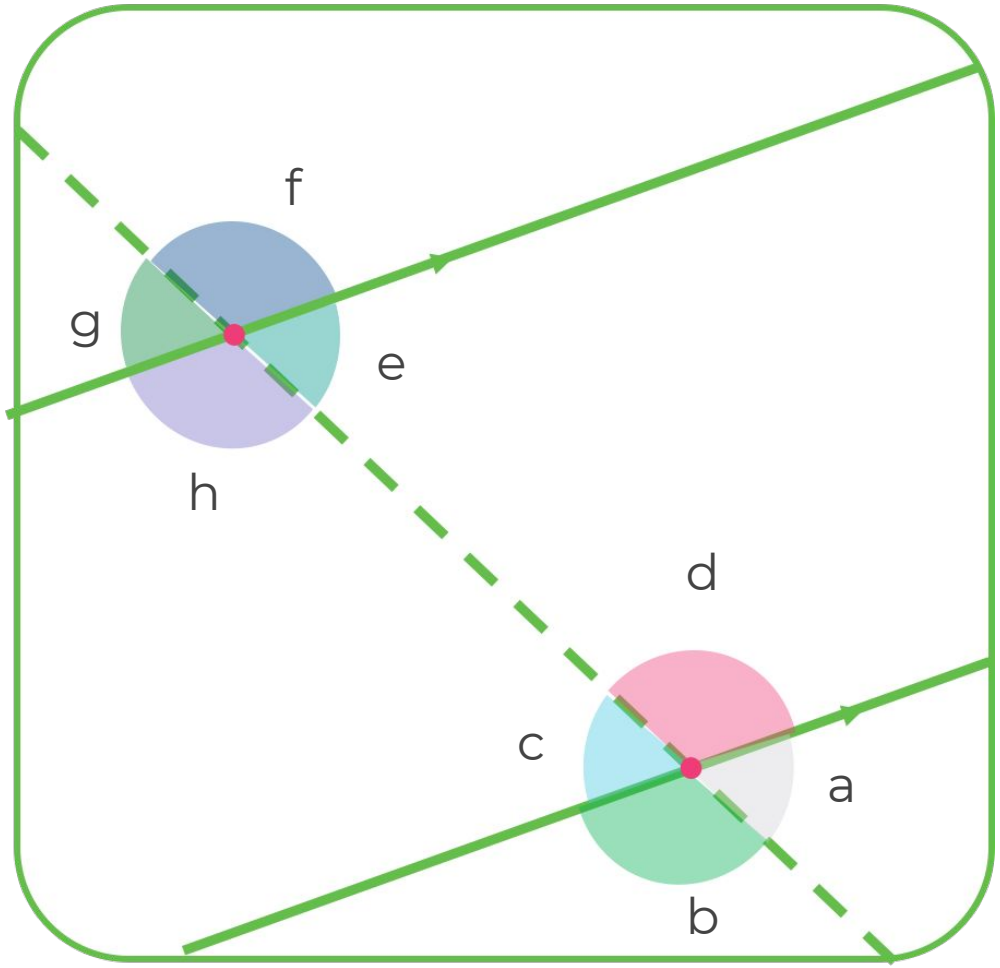


Angles are formed at each point of intersection with a **transversal**

Given that the bold lines are parallel, state a potential value for each of the given angles.

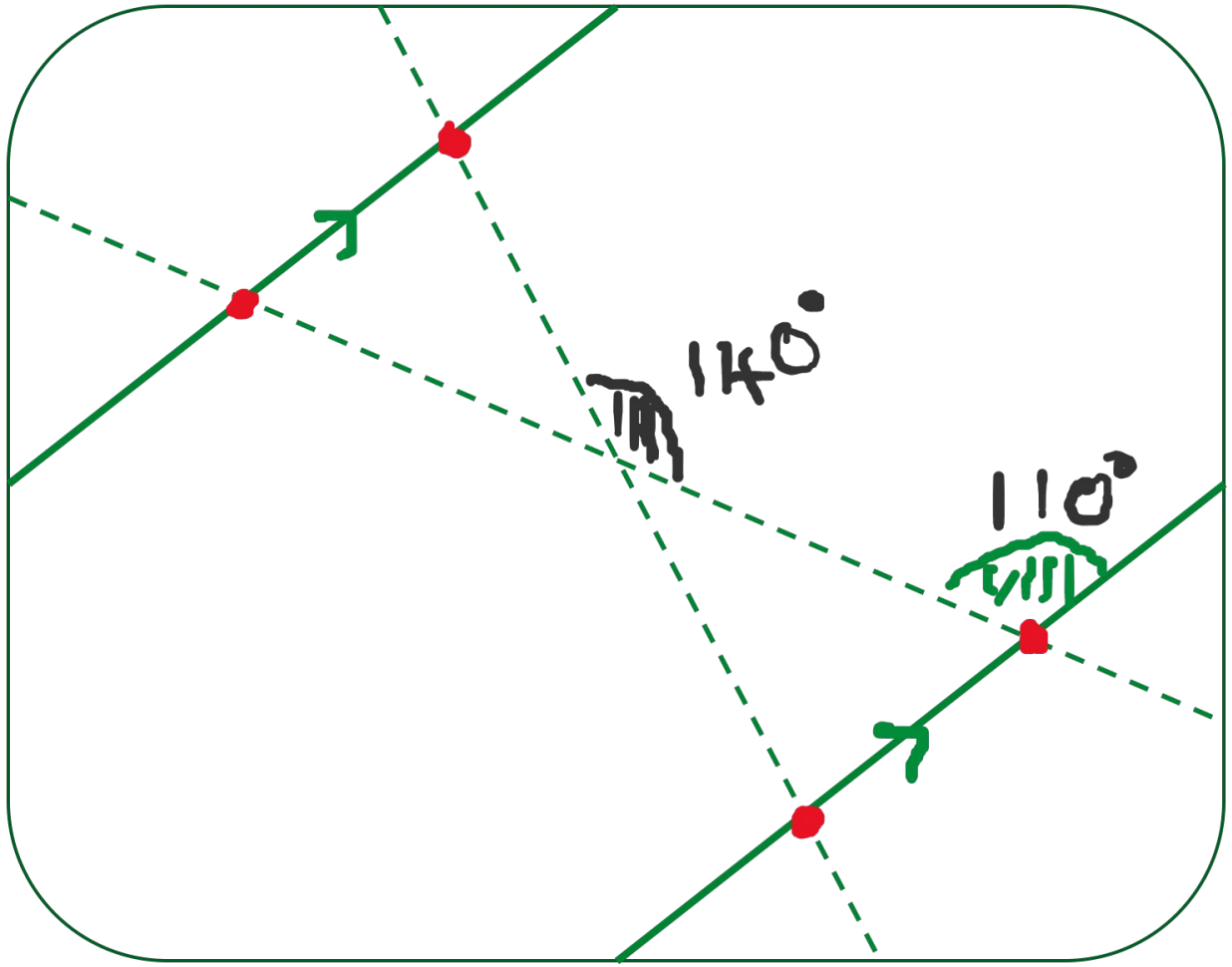
What do you notice?

Independent task



Given that angle a = 30 degrees, work out the size of all the other angles on the diagram

Explore



Work out as many angles as you can.

The bold lines are parallel