

Hello Everyone!

The maths activities are for everyone to access - they are consolidation activities of skills we have already learnt at school!

As always, if you have any questions - send me a message!

5. Use the map below to draw the following flight plan beginning at London Heathrow Airport, marked with a green dot. 1cm = 1000 miles



Travel 2,000 miles west, turn 90° anticlockwise.

Travel 3,000 miles turn 120° clockwise.

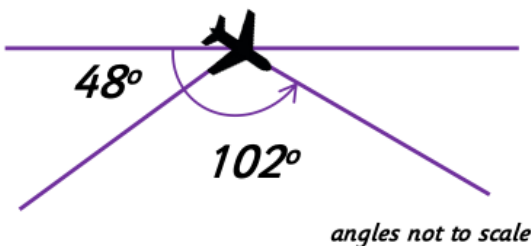
Travel 3,000 miles turn 45° clockwise.

Travel 2,000 miles further and land.

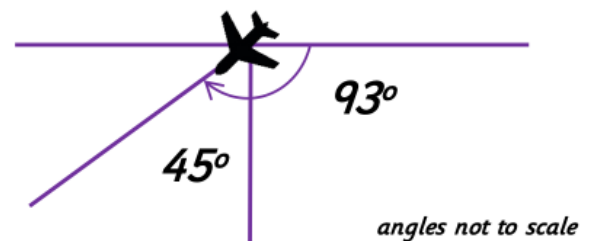
Which country is your destination?

You are half way through a directed turn and your line to air traffic control goes down. You know the destination and have made a partial turn.

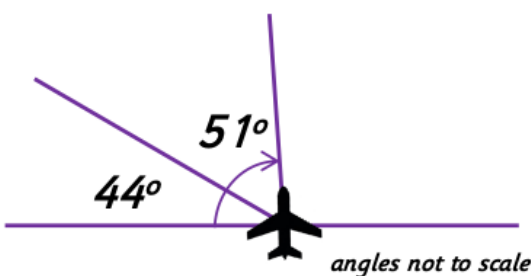
6. Without your protractor calculate the angle which is missing in the three scenarios below...



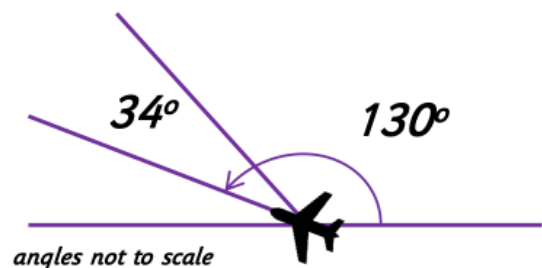
A



B



C

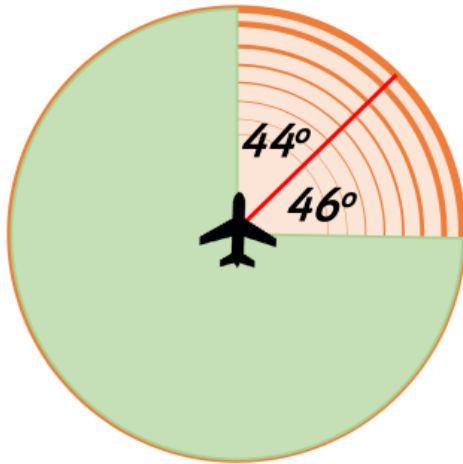


D

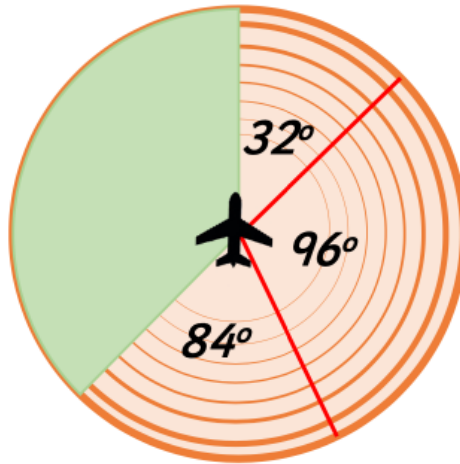
Radar is essential for avoiding obstacles in flight. There has been a malfunction and your radar is partially obscured due to a fault in the internal systems.

7. Use the data below to calculate what angle of your radar is obscured.

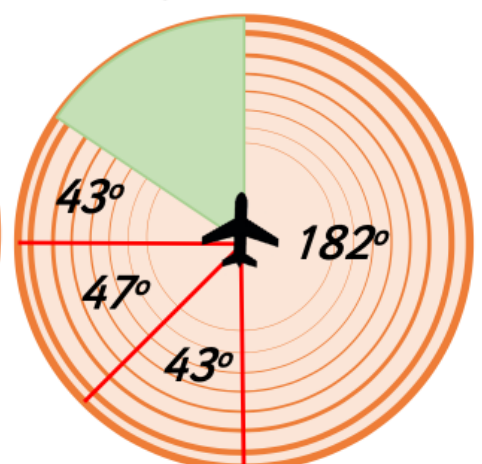
angles not to scale



angles not to scale



angles not to scale



The final skill we will test is your ability to visualize space and shape. Although not directly linked to your pilot job, the tasks are key to discovering your underlying ability.

Apply yourself to this final task to take off in style.



10. Identify the shape from the descriptions, is there more than one possible answer?

A I have 6 identical faces.

B I have two faces which angles have a sum of 180° . My other 3 faces are quadrilaterals.

C My faces all have 4 angles of 90° .

D My base may change, my other faces have 3 internal angles.



E 2 of my faces are identical, my other 4 have internal angles with a sum of 360° .

F I have no corners, no edges and one surface.

G 2 of my faces are identical, I have 2 curved edges.

H I have one curved surface.