

# Outcome 3 - Compass Points & Bearings

## Bronze examples


Examples...

**Full Turn - 360°**

**Half Turn - 180°**

**Quarter Turn - 90°**

There are 45° between each compass point.



A hiker walks north. He then turns 90° clockwise. **East**  
What direction was he now facing?

A tank drives south. It then turns 135° anti-clockwise. **North-East**  
What direction was it now facing?

## Silver example

Examples...

North

38°

Glasgow

Seoul

The 3 figure bearing from Glasgow to Seoul is... **038°**

North

178°

Glasgow

Madrid

The 3 figure bearing from Glasgow to Madrid is... **178°**

**\*\*Bearings are measured from the NORTH line in a CLOCKWISE direction!\*\***

## Gold example

Examples...

What is the bearing FROM Copenhagen to Glasgow?

84°

84°

84 + 180 = 264°

What is the bearing FROM Berlin to Glasgow?

115°

115 + 180 = 295°

- Extend the North line.
- Fill in the corresponding angle.
- Add 180°.

## Bronze Questions

For each of the following, work out the new direction faced...

1 A car drives south.



It then turns 90° anti-clockwise.  
What direction is it now facing?

2 A bus travels north-west.



It then turns 180° clockwise.  
What direction is it now facing?

3 A ship sails south-east.



It then turns 135° clockwise.  
What direction is it now facing?

4 A squadron marches north-west.

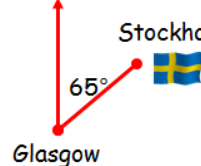


It then turns 270° anti-clockwise.  
What direction is it now facing?

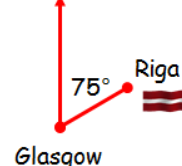
## Silver Questions

Write down the following 3 figure bearings FROM Glasgow...

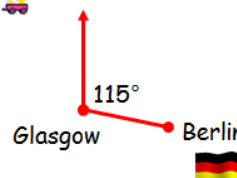
1 North



2 North



3 North



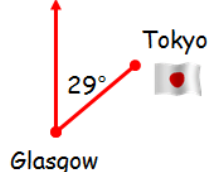
4 North



## Gold Questions

Write down the following 3 figure bearings from each place TO Glasgow...

1 North



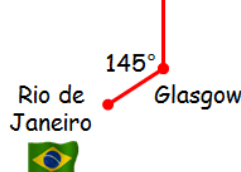
2 North



3 North



4 North



Bronze Answers

- |    |      |    |            |
|----|------|----|------------|
| 1. | East | 2. | South-East |
| 3. | West | 4. | North-East |

Silver Answers

- |    |      |    |      |
|----|------|----|------|
| 1. | 082° | 2. | 075° |
| 3. | 135° | 4. | 214° |

Gold Answers

- |    |      |    |      |
|----|------|----|------|
| 1. | 209° | 2. | 270° |
| 3. | 358° | 4. | 035° |