Guide to: Bearings

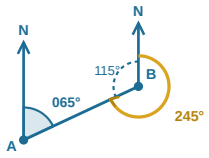
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Explanation:

Every **bearing** must obey three rules: (1) measure from **North**, (2) measure **clockwise**, and (3) write the answer as **3 digits** (e.g. 45° must be written as **045°**). Look carefully at the word **"from"**: for the bearing of *B* **from *A***, stand at ***A*** and measure clockwise from the North line at *A*.

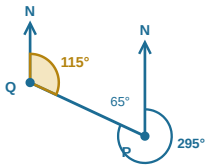
Because North lines are parallel, the interior angles between two North lines are **co-interior angles and add up to 180°**. Use this (together with angles around a point = **360°**) to calculate back bearings without a protractor.

Example 1: The bearing of ship *B* from port *A* is **065°**. Work out the bearing of port *A* **from ship *B***.



Co-interior at *B*:
180° − 65° = **115°**
360° − 115° = **245°**

Example 2: Town *Q* is on a bearing of **295°** from Town *P*. Work out the bearing of Town *P* **from Town *Q***.



At *P*: 360° − 295° = **65°**
At *Q*: 180° − 65° = **115°**
Answer: 115°

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