

## Bearings

Video 26 on Corbettmaths

Question 1: Write down the bearing of B from A in each of the following.  
Give each answer as a three figure bearing.

(a)



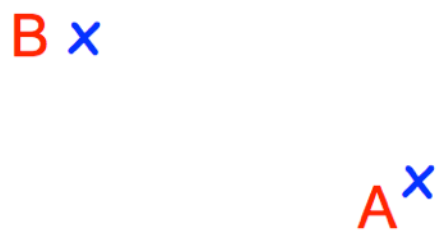
(b)



(c)



(d)



(e)



(f)

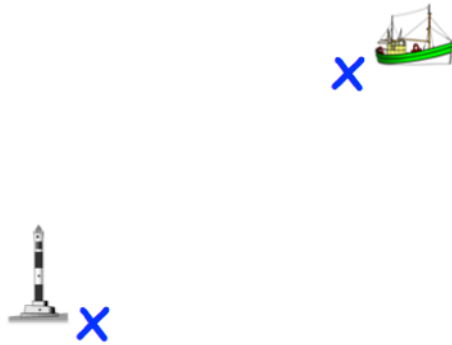


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Question 2: Write down the bearing of the boat from the lighthouse in each of the following. Give each answer as a three figure bearing.

(a)



(b)



(c)



(d)



(e)



(f)



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Question 3: There are eight airplanes in the airspace above a radar.  
Put an x in the middle of your page to represent the radar.  
Letting 1cm = 1mile, mark the position of each airplane.



- (a) Airplane 1 is 6 miles from the radar on a bearing of  $025^\circ$
- (b) Airplane 2 is 4 miles from the radar on a bearing of  $075^\circ$
- (c) Airplane 3 is 5 miles from the radar on a bearing of  $125^\circ$
- (d) Airplane 4 is 8 miles from the radar on a bearing of  $150^\circ$
- (e) Airplane 5 is 4 miles from the radar on a bearing of  $190^\circ$
- (f) Airplane 6 is 3 miles from the radar on a bearing of  $250^\circ$
- (g) Airplane 7 is 6.5 miles from the radar on a bearing of  $310^\circ$
- (h) Airplane 8 is 9 miles from the radar on a bearing of  $351^\circ$

Question 4: There are eight boats in the sea around an island.  
Put an x in the middle of your page to represent the island.  
Letting 1cm = 1km, mark the position of each boat.



- (a) Boat 1 is 4 km from the island on a bearing of  $080^\circ$
- (b) Boat 2 is 3 km from the island on a bearing of  $016^\circ$
- (c) Boat 3 is 5 km from the island on a bearing of  $111^\circ$
- (d) Boat 4 is 5.5 km from the island on a bearing of  $308^\circ$
- (e) Boat 5 is 3.5 km from the island on a bearing of  $055^\circ$
- (f) Boat 6 is 6 km from the island on a bearing of  $214^\circ$
- (g) Boat 7 is 6 km from the island on a bearing of  $199^\circ$
- (h) Boat 8 is 5 km from the island on a bearing of  $154^\circ$

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Question 5: Give these directions of travel as three figure bearings

- |           |                |           |                |
|-----------|----------------|-----------|----------------|
| (a) North | (b) South-east | (c) West  | (d) North-east |
| (e) East  | (f) South-west | (g) South | (h) North-west |

Question 6: A dolphin is on a bearing of  $100^\circ$  from the island.  
The same dolphin is on a bearing of  $015^\circ$  from the lighthouse.  
On a sketch of the diagram below, mark the location of the dolphin.



Question 7: A hot-air balloon is on a bearing of  $140^\circ$  from the radar A.  
The same hot-air balloon is on a bearing of  $065^\circ$  from the radar B.  
On a sketch of the diagram below, mark the location of the hot-air balloon.



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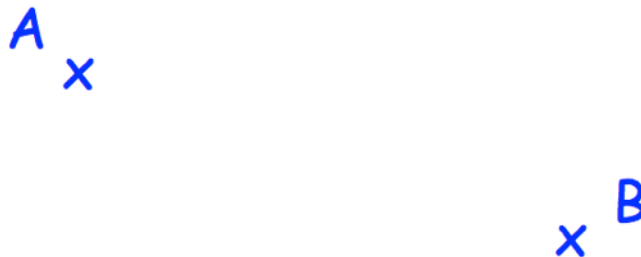
Question 8: A UFO is on a bearing of  $015^\circ$  from the radar A.  
The same UFO is on a bearing of  $315^\circ$  from the radar B.  
On a sketch of the diagram below, mark the location of the UFO.



Question 9:

- The bearing of A from B is  $025^\circ$ , find the bearing of B from A.
- The bearing of A from B is  $061^\circ$ , find the bearing of B from A.
- The bearing of A from B is  $098^\circ$ , find the bearing of B from A.
- The bearing of A from B is  $102^\circ$ , find the bearing of B from A.
- The bearing of A from B is  $193^\circ$ , find the bearing of B from A.
- The bearing of A from B is  $222^\circ$ , find the bearing of B from A.
- The bearing of A from B is  $315^\circ$ , find the bearing of B from A.

Question 10: Make a copy of the diagram below into your book.



- Find the bearing of B from A.
- Find the bearing of A from B.

Use the scale 1cm represents 20miles.

- From your diagram, work out the real distance between A and B.

C is 140 miles from B on a bearing of  $110^\circ$ .

- On your diagram, mark C with a cross.