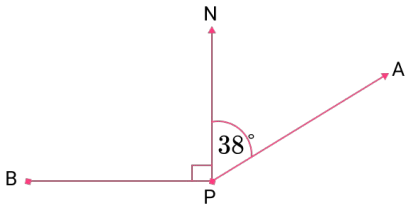
THIRD SPACE LEARNING

GCSE Exam Questions

Bearings | Geometry & Measure

GCSE Exam Questions: Bearings

1) The diagram below shows the position of person A and person B in relation to person P who is facing North.



(a) Write down the bearing of A from P.

(1)

(b) Write the bearing of B from P.

(1)

(2 marks)

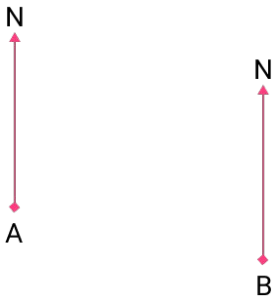
---

2) The bearing of A from B is 215°. Find the bearing of B from A.

(2 marks)

---

3) The point C is on a bearing of 065° from point A and on a bearing of 310° from point B. On the diagram, mark with a (x) the position of point C.



(2 marks)

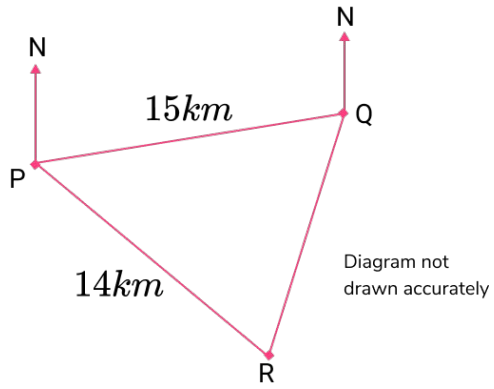
GCSE Exam Questions: Bearings

4) The diagram shows the positions of three towns labelled P, Q and R.

Q is on a bearing of 080° from P.

R is on a bearing of 132° from P.

The distance PQ is 15km and the distance PR is $14km$.



(a) Find the distance QR.

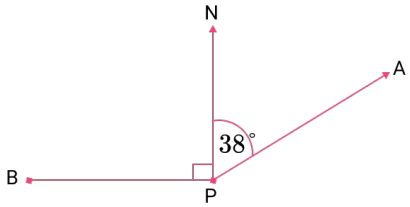
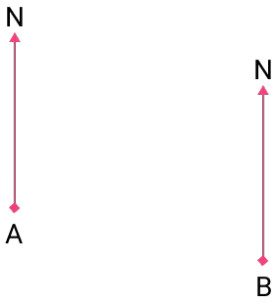
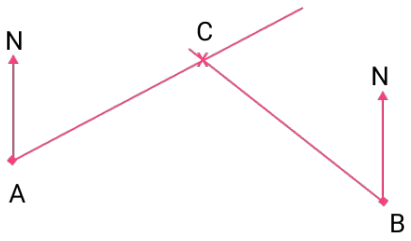
(3)

(b) Find the bearing of R from Q.

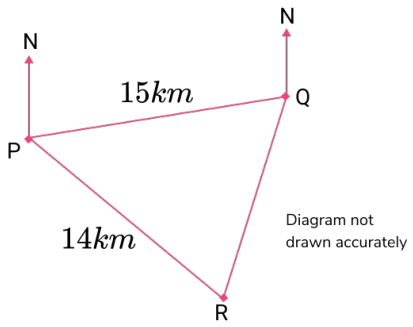
(5)

(8 marks)

GCSE Exam Questions: Bearings Answers

	Question	Answer	Marks
1)	The diagram below shows the position of person A and person B in relation to person P who is facing North.  		
(a)	Write down the bearing of A from P.	**(a)** 038°	**(1)**
(b)	Write the bearing of B from P.	**(b)** 270°	**(1)**
2)	The bearing of *A* from *B* is 215°. Find the bearing of *B* from *A*.	215 - 180 or 360 - 215 = 145 **seen** 035°	**(1)** **(1)**
3)	The point *C* is on a bearing of 065° from point *A* and on a bearing of 310° from point *B*. On the diagram, mark with a (x) the position of point *C*.  	 Correct line from *A* **or** correct line from *B* Both lines correct and (x) shown	**(1)** **(1)**

GCSE Exam Questions: Bearings Answers

	Question	Answer	Marks
4)	The diagram shows the positions of three towns labelled P, Q and R. Q is on a bearing of 080° from P. R is on a bearing of 132° from P. The distance PQ is 15km and the distance PR is 14km. 		
(a)	Find the distance QR.	**(a)** Angle QPR = 132° - 80° = 52° QR^2 = 15² + 14² - 2 x 15 x 14 x cos 52 QR = 12.74km (2dp)	**(1)** **(1)** **(1)**
(a)	Find the bearing of R from Q.	**(b)** $\frac{sin\,52}{12.74} = \frac{sin\,PQR}{14}$ Angle PQR = 59.96° 100° anticlockwise from North Q 360 - (100 + 59.96) 200° (0dp)	**(1)** **(1)** **(1)** **(1)** **(1)**

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning GCSE maths revision pages.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?

Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.

THIRD SPACE LEARNING