Compass Questions 2

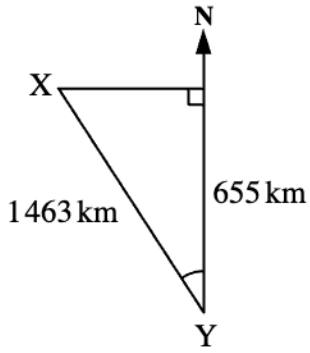
47262

Q1 Una travels due north for 50 km. She then changes direction and travels due west for 75 km. Find the compass bearing of Una's position now from her starting point.

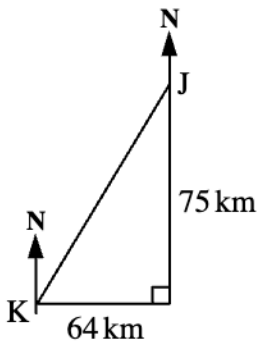
Q2 Tim flies his helicopter 1000 km from Alpha due east until he reaches Beta. From Beta he flies 940 km due south. What is Tim's 3-digit bearing from Alpha?

Q3 S.S. Titanica leaves port, P, sailing due south for 1050 km, then turning and sailing due west for 475 km.
(i) Find the 3-digit bearing of the Titanica from P.
(ii) Find the compass bearing of P from the Titanica.

Q4 (i) Use the diagram to find the 3-digit bearing of X from Y (nearest degree).



(ii) Use the diagram to find the compass bearing of J from K (nearest degree).



Q5 A train is 80 km due south of Surdsville. It then travels 150 km in an easterly direction until it reaches Radical.
(i) What is the 3-digit bearing of Surdsville from Radical?
(ii) What is the 3-digit bearing of Radical from Surdsville?

Q6 Frank hikes from Trigtown on a bearing of 060° for 15.6 km.
Earnest hikes from the same town on a bearing of 150° for 24.2 km.
(i) Find the 3-digit bearing of Frank from Earnest.
(ii) Find the 3-digit bearing of Earnest from Frank.
(iii) Find the 3-digit bearing of Trigtown from Earnest.

Q7 Wendy leaves airport, A, flying on a bearing of 325° for 800 km.
She then turns on a course of 235° and flies for 950 km.
(i) Find Wendy's bearing from A.
(ii) Wendy decides to turn and fly straight back to A at a speed of 450 km/h. How long will it take her? Answer to the nearest minute.

Q8 Rita sails from port X for 400 km on a bearing of 220°.
Paula sails from X on a bearing of 130° for 400 km.
On what bearing is Rita from Paula?

ANSWERS

A) N 24°20' E
B) N 28°20' E
C) N 52° W
D) N 56° W
E) 003°
F) 040°
G) 050°
H) 080°
I) 114°
J) 118°
K) 127°14'
L) 133°14'
M) 150°
N) 164°20'
O) 183°
P) 204°20'
Q) 265°
R) 275°
S) 297°
T) 298°
U) 300°
V) 330°
W) 357°
X) 2 h 46 min
Y) 3 h 16 min
Z) 3 h 26 min