

Scale Drawing Exam Questions

Q1. The bearings and distances of two ships A and B from a port P are A[036° , 144km] and B[114° , 97km]. How far apart are the ships? Use a scale of 1cm = 20km

Q2. An airplane is 200km from an airport on a bearing of 208° , while a second airplane is 170km from the same airport on a bearing of 094° . How far apart are the airplanes? Use Scale 1cm = 20km.



Q3. An airplane leaves Heathrow and flies 400km on a bearing of 160° . It then turns and flies 280km on a bearing of 100° . How far is it now from the airport? Use Scale of 1cm = 40km

Q4. The bearings and distances of two ships Alpha and Beta from a port P are Alpha [058° , 76km] and Beta [108° , 87km]. How far apart are the ships?



Q5. A ship leaves port P and sails 91km east. It then turns and sails 99km on a bearing 136° . How far is the ship from the port?

Q6. Two radar stations R1 and R2 pick up signals from an incoming aircraft. R1 is 80km north of R2. Station R1 picks up the signals on a bearing of 102° and station R2 on a bearing 067° . How far is the aircraft from R1?

Q7. Plane BA37 is 764km from an airport on a bearing 200° , while plane Vir22 is 570km from the same airport on a bearing 166° . How far apart are the planes?



Q9. The bearings and distances of three oil rigs from a port are Oilrig1 [$027^\circ, 90\text{km}$], Oilrig2 [$100^\circ, 150\text{km}$] and Oilrig3 [$146^\circ, 130\text{km}$]. A supply ship leaves port and visits the three oil rigs one after the other and then returns to port. Find the total distance traveled by the supply ship

