ZiloAcademy

✨ Grade 10 Maths — Bearings, Elevation & Depression ✨

Name: Demo **Date:** 26/11/2026

1. A ship sails **12** km due north, then **16** km due east. How far is it from its starting point (km)?

2. A ship sails **21** km due north, then **72** km due east. How far is it from its starting point (km)?

3. A ship sails **20** km due north, then **48** km due east. How far is it from its starting point (km)?

4. From **10** m away on flat ground, the angle of elevation to the top of a tower is **25**°. How tall is the tower, to **1** decimal place (m)?

5. From **64** m away on flat ground, the angle of elevation to the top of a tower is **15**°. How tall is the tower, to **1** decimal place (m)?

6. From **41** m away on flat ground, the angle of elevation to the top of a tower is **52**°. How tall is the tower, to **1** decimal place (m)?

7. The bearing of B from A is 315°T. What is the bearing of A from B? (3 digits, e.g. 045)

8. From the top of a **40** m cliff, the angle of depression to a boat is **19**°. How far is the boat from the base of the cliff, to **1** decimal place (m)?

9. A ship sails **9** km due north, then **12** km due east. How far is it from its starting point (km)?

10. From **10** m away on flat ground, the angle of elevation to the top of a tower is **42**°. How tall is the tower, to **1** decimal place (m)?