# YEAR 10 MATH:

## TRUE AND COMPASS BEARINGS



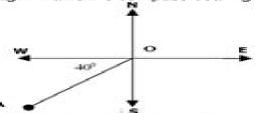
The two types of bearings you may be asked to use in the Year 10 Math course are COMPASS and TRUE

#### COMPASS BEARINGS

To answer these questions we start in the middle of your compass and use the saying "Look, Turn, Towards"

Look is always either N or S. Turn is always less than 90°. Towards is always either E or W.

Eg: What is the compass bearing from O to A?



Look = S (because its closest)

Turn = 50° (because 90 - 40 = 50)

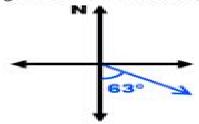
Towards = W (that's the direction we turn from S)

So the answer is S 50° W.

#### TRUE BEARINGS

True bearings are how many degrees you need to turn in a clockwise direction if you start in the middle of the compass looking North.

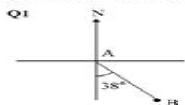
Eg: What is the true bearing of arrow shown?

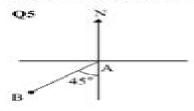


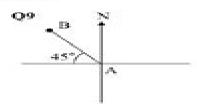
Start looking North.
Turn 90° to look east.
Then another 27° (because 90 – 63 = 27)

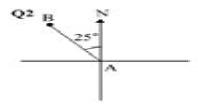
So the answer is 90 + 27 = 117°T

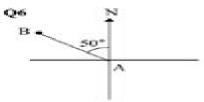
Attempt these examples. Write both the Compass and True bearing for each.

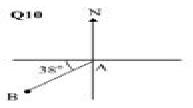












# **True Bearing Compass Questions Trigonometry**

Lyn Baker

#### **True Bearing Compass Questions Trigonometry:**

**Solutions of Problems in Trigonometry, Part I.** Henry William Jeans, 1843 Excel Essential Skills A. S. Kalra, 2004 Connections Maths Ajit Kalra, James Stamell, 2004 Connections Maths 9 Stage 5 3 5 2 5 1 together with Connection s Maths 10 Stage 5 3 5 2 5 1 provides complete coverage of the out comes for Stage 5 3 pathway The outcomes for the Stage 5 2 are covered in Connections Maths 9 Stage 5 2 5 1 and Connections Maths Stage 10 5 2 5 1 Features outcomes at the start of ever y chapter a dynamic full colour design that clearly distinguish es theory examples exercises and features carefully graded e xercises with worked examples and solutions linked to each cart oons offering helpful hints working mathematically strands that are fully integrated These also feature regularly in challenging secti ons designed as extension material which also contain interesting histor ical and real life context a chapter review to revise and conso lidate learning in each chapter speed skills sections to revise and provide mental arithmetic skills problem solving application strategies with communication and reasoning through an inquiry approach a comprehensive Diagnostic test providing a cumulative review of learning in all chapters cross referenced to each exercise integrated technology activities literacy skills develop lan guage skills relevant to each chapter fully linked icons to acc ompanying CD ROM The student CD ROM accompanying this text book can be used at school or at home for further explanation and learning Each CD ROM contains interactive diagnostic tex t perfect revision for all Stage 4 work The regenerative nature of the program allows for an almost limitless number of varied tests of equal difficulty This test can be used prior to commencing Stage 5 work dynamic geometry activities using WinGeom and Cabri software for student investigations using technology with formatted Exce l spreadsheets full textbook with links to Connections Maths 10 Ajit Kalra, James Stamell, 2005 The Connections Maths 10 Stage 5 2 5 2 Teaching and the above Assessment Bo ok includes many resources that makes using the Connections series the most effective and user friendly series available The resources in this book include a teaching program referenced to the student book syllabus notes detailed guidance on teaching each topic outcomes clearly stated and cross referenced to the student books assessment ad reporting strategies ov erview and summary of every chapter and exercise in the student book relevant internet sites and further research questions all this material is also provided on CD ROM to allow for printing and cus tomising Year 9 Intermediate Mathematics Lyn Baker, 2004-12-31 Problems Illustrating Applications of Trigonometry, Algebra, and Analytic Geometry in the United States Naval Academy United States. Naval Academy. Department of mathematics, Ebon Elbert Betz, 1948 Year 10 Intermediate Mathematics Lyn Baker, 2005 The popular Excel Revise in a Month series for senior second ary students has now been adapted for junior high school subjects Each book in the series provides a structured easy to follow revision program for topics tests and exams throughout the year Excel Revise in a Month Year 10 Intermediate Mathematics book r evises the NSW Year 10 Stage 5 2 Mathematics course is applicable to students in the other states studying Year 10 Mathematics tells students exactly what to study each week and how much time

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