

Cosine Rule

Week 15

Lesson Time : 30-35 Minutes

Course : Higher

Grade : 7

Back to Basics

Core

Let's Do It!

GCSE Revision Video 72

- **Prior Checklist:** A pack of A5/A6 revision cards.

A pen.

- **Our Video Structure:**

Back to Basics: Quick re-cap.

Core: *Create* your own revision cards with exam style questions.

Let's Do It!: *Apply* your revision cards to another set of exam style questions.

Instructions: Print out this worksheet and watch the revision video simultaneously.

'Pause and Play' the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.

Create your OWN revision cards when prompted on the worksheet (Back to Basic and Core sections).

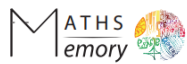
Apply your OWN revision cards (Let's Do It! section).

Self Assess yourself (Out of 10) on your revision planner after you have completed the revision video.

WATCH this revision video and **MANY** others on our **FULL** courses at www.mathsmemory.co.uk

Let's get started and create our Master revision card with this suggested template.

Back to Basics- Starter questions to warm you up



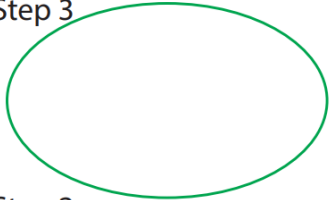
Maths Memory

Learn:

➔ Calculate Length (SAS)

➔ Calculate Angle (SSS)

Step 3



Step 2



Step 1



Example(s):

Topic: Cosine Rule
Date/week: _____

GRADE
7

Back to Basics- Starter questions to warm you up

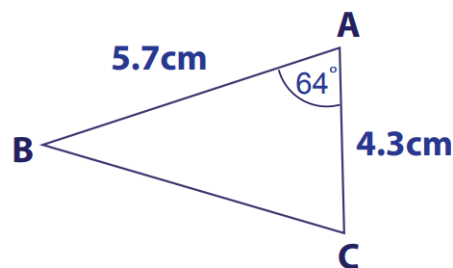


Back to Basics

Topic: **Cosine Rule**

Question 1

Calculate the length BC.



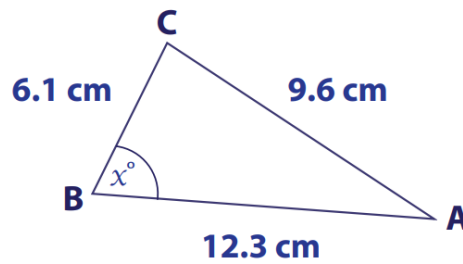
Calculator



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Question 2

Calculate the angle ABC.



Calculator

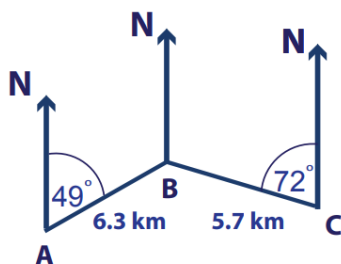
Core- Create your revision cards with these exam style questions

Question 1

A, B and C represent the position of three towns. B is 6.3 km from A. C is 5.7 km from B.

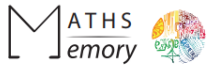
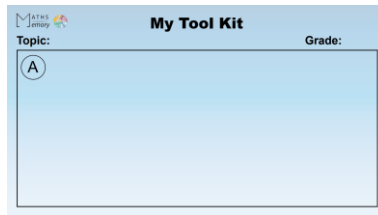
B is on a bearing of 49° from A.

Calculate the shortest distance that A is from C. (Calculate to 1 dp)



Grade (4 Marks)
7 Calculator

Let's get our revision card and create Section A. Look at video for guidance

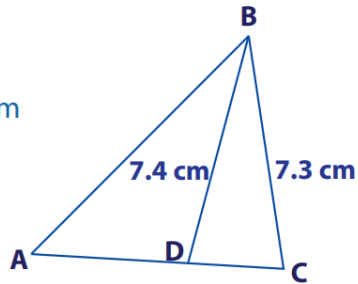


Core 2

Topic: Cosine Rule

Question 2

ABC is a triangle. BC is 7.3 cm BD is 7.4 cm
The line AC is such that AD:DC = 2:1. AC is 7.5 cm
Calculate the length AB (Write to 3 sf)



Grade (5 Marks)
7 Calculator



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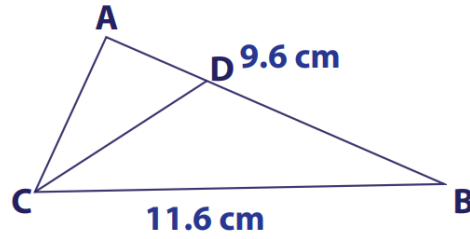
Question 3

The area of triangle ABC is 27cm^2

$AB = 9.6\text{cm}$. $CB = 11.6\text{ cm}$

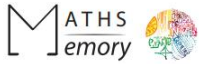
Line CD bisects angle ACB

Calculate the angle CDB.



Grade (5 Marks)
8 **Calculator**

Let's Do It! - Apply your revision cards to another set of exam style questions



Let's Do It!

Topic: Cosine Rule

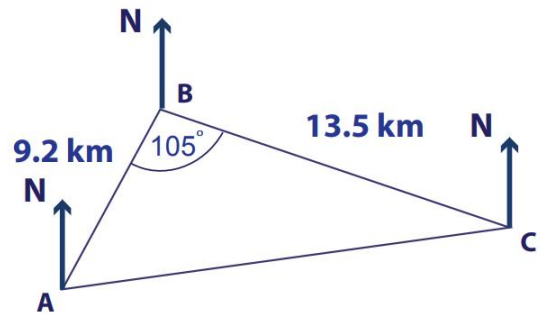
Question 1

A, B and C represent the position of three towns.

The bearing of C from A is 83°

$AB = 9.2\text{ km}$. $BC = 13.4\text{ km}$

Find the bearing of B from A

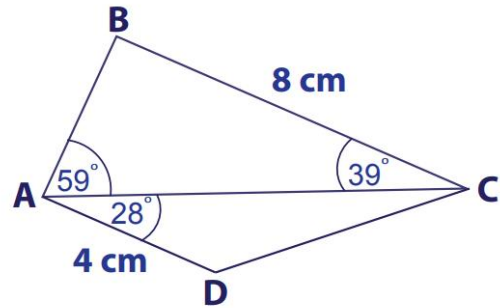


Grade (4 Marks)
7 Calculator



Question 2

The shape shows triangles ABC and ADC
 Angle BAC = 59° Angle BCA = 39° Angle DAC = 28°
 BC = 8cm and AD = 4 cm
 Calculate length DC



Grade **7** (5 Marks)
Calculator

Congratulations. You have completed this topic.

Now go back to your revision planner and rate yourself out of 10.