

Sine Rule (+ Area)

Week 15

Lesson Time : 20-25 Minutes

Course : Higher

Grade : 7

Back to Basics

Core

Let's Do It!

GCSE Revision Video 71

- **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.

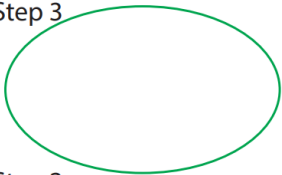


Maths Memory

Learn:

-  Calculate Lengths
-  Calculate Angles
-  Calculate Area

Step 3



Step 2



Step 1



Example(s):

Topic: Sine Rule (+Area)
Date/week: _____

GRADE
7

Back to Basics- Starter questions to warm you up

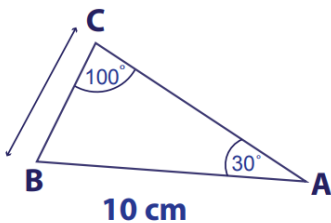


Back to Basics

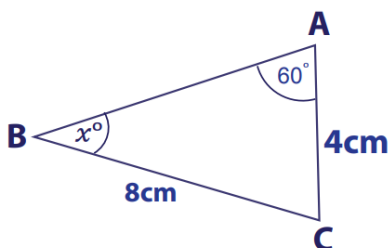
Topic: Sine Rule and Area

Question 1

a) Calculate the unknown length BC



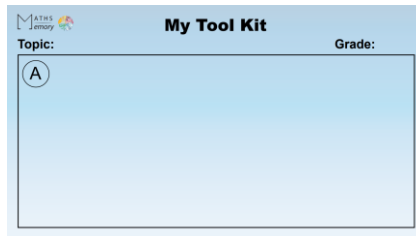
b) Calculate the unknown angle ABC



Calculator

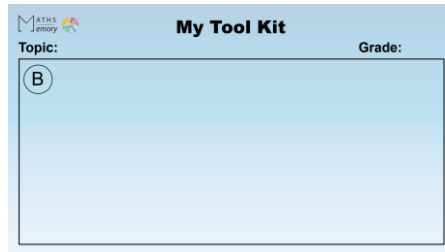


Let's get our revision card and create Section A. Look at video for guidance

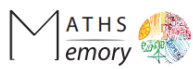


A revision card template titled "My Tool Kit". It has a light blue background. At the top left, there is a logo for "MATHS memory" and a small globe icon. Below the logo, the word "Topic:" is followed by a large empty rectangular box. In the top left corner of this box, the letter "A" is circled. At the top right, the word "Grade:" is followed by another empty rectangular box.

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



A revision card template titled "My Tool Kit". It has a light blue background. At the top left, there is a logo for "MATHS memory" and a small globe icon. Below the logo, the word "Topic:" is followed by a large empty rectangular box. In the top left corner of this box, the letter "B" is circled. At the top right, the word "Grade:" is followed by another empty rectangular box.

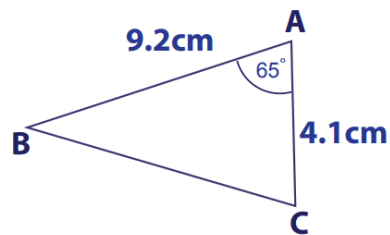


Back to Basics

Topic: **Sine Rule and Area**

Question 2

Calculate the area of triangle ABC

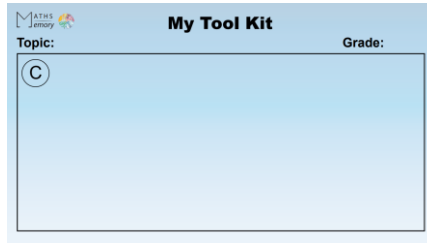


Calculator



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



Core 1

Topic: Sine Rule and Area

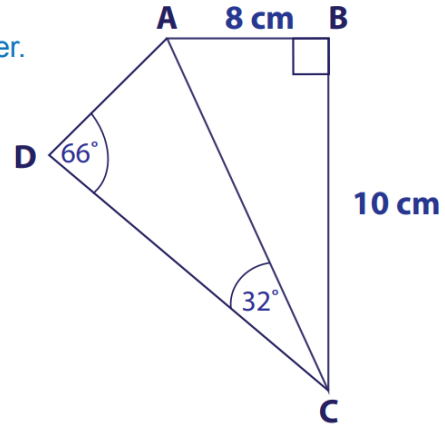
Question 1

The diagram shows two triangles adjoined to one another.

$AB = 8\text{cm}$ $BC = 10\text{cm}$

Angle $ADC = 66^\circ$ Angle $DCA = 32^\circ$

Calculate the length AD



Grade (3 Marks)
7 Calculator

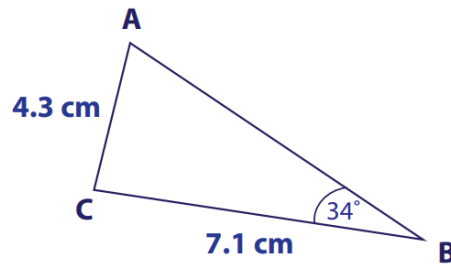


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Question 2

The diagram shows triangle ABC
 $AC = 4.3 \text{ cm}$ $CB = 7.1 \text{ cm}$
 $\text{Angle } ABC = 34^\circ$

Calculate the area of triangle ABC



Grade (4 Marks)
7 Calculator

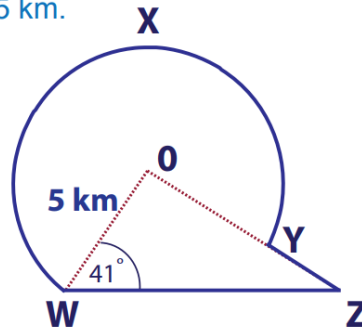
Question 3

A footpath comprises of both an arc WXY and a partial triangle WZY. The arc is 9.6km and forms part of a sector, centre O, radius 5 km.

WOZ is a triangle.

Angle OWZ = 41°

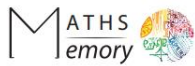
Calculate the perimeter of the footpath
(Calculate to 3 significant figures).



Grade

8 (6 Marks)
Calculator

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

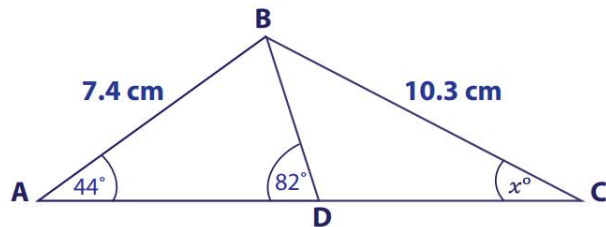


Let's Do It!

Topic: Sine Rule and Area

Question 1

ABC is a triangle. D is a point on line AC
AB = 7.4 cm and BC = 10.3 cm
Angle BAD = 44° Angle BDA = 82°
Calculate the angle DCB



Grade

7 (4 Marks)

Calculator



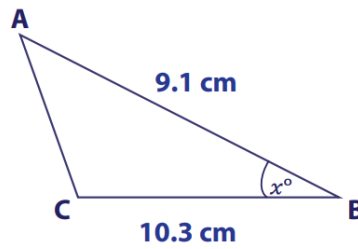
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Question 2

The area of the triangle ABC is 22cm^2

$AB = 9.1\text{cm}$ $CB = 10.3\text{cm}$

Calculate the angle ABC



Grade

7

(4 Marks)

Calculator

Congratulations. You have completed this topic.

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