



**Heathfield**

Community College and Sixth Form

**Maths**



~~Practising~~  
~~REVISING~~  
MATHS

Take regular breaks

Make a timetable

Work through past papers

Google it!

Use or make revision cards, a popplet or a prezzi

BUT do get them marked using a mark-scheme

Find a quiet workspace

Do a little bit of "practice" every day

Ask for help if unsure

Work through past papers

Know the formula you need to remember & what is in the paper

Study with a friend - teach them a topic & vice versa

Know what topics to focus on

Make sure you have and USE a recommended revision guide



Follow @ReviseJustMaths

Watch the tutorials or revision clips your teacher suggests

make a list and update it regularly

Its no good just owning a guide ... USE IT!

To revise maths you need to DO maths!

# What to expect from the exam papers

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- 3 papers:

  - Paper 1 is non calculator

  - Paper 2 and 3 are calculator papers.

- Higher tier - Grades 3-9.

- Foundation tier - Grades 1-5

- Fewer marks will be awarded at the lower grades and more marks will be awarded at the higher grades at both Foundation and Higher tier.

- Challenging questions with a greater emphasis on problem-solving and mathematical reasoning.

# Old style question

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Here is a cuboid.

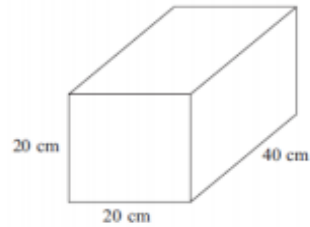


Diagram **NOT**  
accurately drawn

Work out the volume of the cuboid.

.....  
**(3 marks)**

# Questions to expect

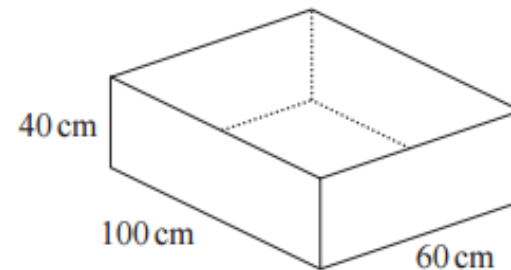
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The diagram shows a sand pit.  
The sand pit is in the shape of a cuboid.

Sally wants to fill the sand pit with sand.  
A bag of sand costs £2.50  
There are 8 litres of sand in each bag.

Sally says,  
“The sand will cost less than £70”

Show that Sally is wrong.



# Formulae to memorise

## Edexcel GCSE (9-1) Maths: need-to-know formulae

[www.edexcel.com/gcsemathsformulae](http://www.edexcel.com/gcsemathsformulae)

### Areas

Rectangle =  $l \times w$



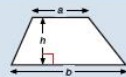
Parallelogram =  $b \times h$



Triangle =  $\frac{1}{2} b \times h$

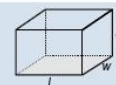


Trapezium =  $\frac{1}{2} (a + b)h$

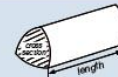


### Volumes

Cuboid =  $l \times w \times h$



Prism = area of cross section  
 $\times$  length



Cylinder =  $\pi r^2 h$



Volume of pyramid =  
 $\frac{1}{3} \times$  area of base  $\times$  h



# Practise, practise, practise

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Past exam papers:

Work through the paper once without any help.

Mark any questions you can't do.

On the questions you can't do - highlight the key words

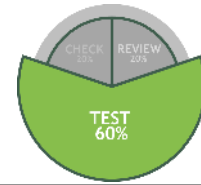
Use online resources/revision guides to help you on the key words and look for examples to work through.

Apply this to the exam question.

Prioritise these questions and practise more examples (keshmaths, hegartymaths, methodmaths).



# Tackling exam questions



The diagram shows the floor of a village hall.

What can I work out?

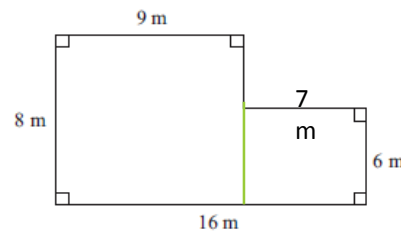


Diagram NOT accurately drawn

The caretaker needs to polish the floor.

One tin of polish normally costs £19

One tin of polish covers 12 m<sup>2</sup> of floor.

There is a discount of 30% off the cost of the polish.

The caretaker has £130

Has the caretaker got enough money to buy the polish for the floor?

You must show all your working.

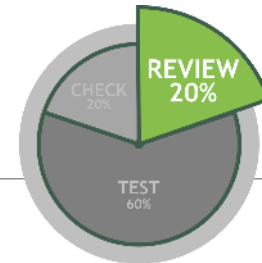
Look for clues

This question involves calculating area, cost and percentages  
-which parts need revising?



# Maths songs!

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Pythagoras Theorem

Area and circumference of a circle

Trigonometry

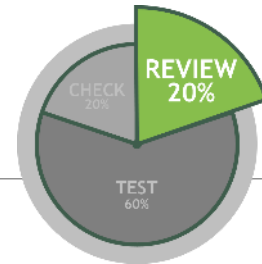
Averages

Straight line graphs




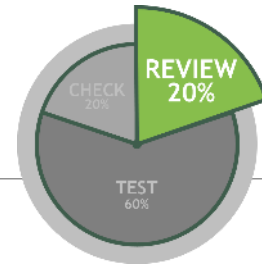
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Find a 'STUDY BUDDY'!



Explaining how to do something to someone else means you understand it!





Task: Choose a GCSE question and teach your parent!

Challenge: Before they leave the room do they understand how to do the question?

