



GCSE MATHS REVISION: A SURVIVAL GUIDE

Miss Baldry
Mr Scarborough
Mrs Taylor

NEW SPECIFICATION

So last year...

Grades A* - G

Two papers:
calculator and non-calculator

Mostly skills based questions with a few in
context application of skills questions

Trending Now...

Grades 9 – 1

Three papers:
two calculator and one non-calculator

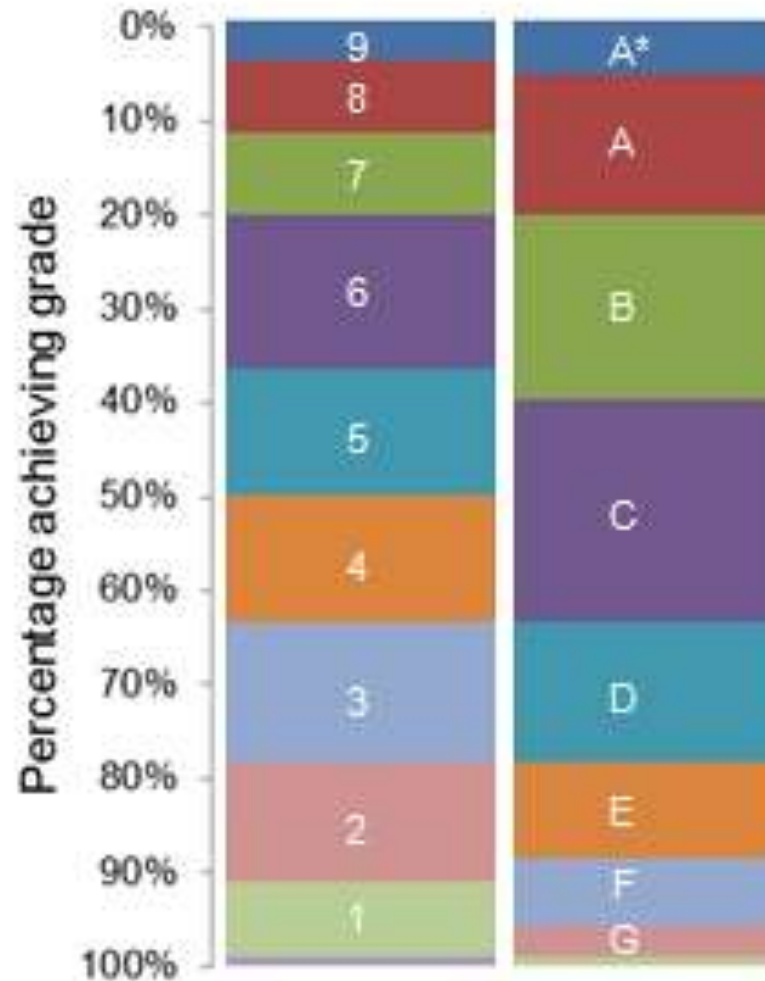
More emphasis on the application of skills
questions with less structure given

NEW GRADES

Foundation Tier
assesses grades
1 – 5

Higher Tier
assesses grades
4 – 9

MATHEMATICS



EXAM DATES

Thursday 25th May

Foundation Paper 1 and Higher Paper 4 (Calculator)

Thursday 8th June

Foundation Paper 2 and Higher Paper 5 (Non-Calculator)

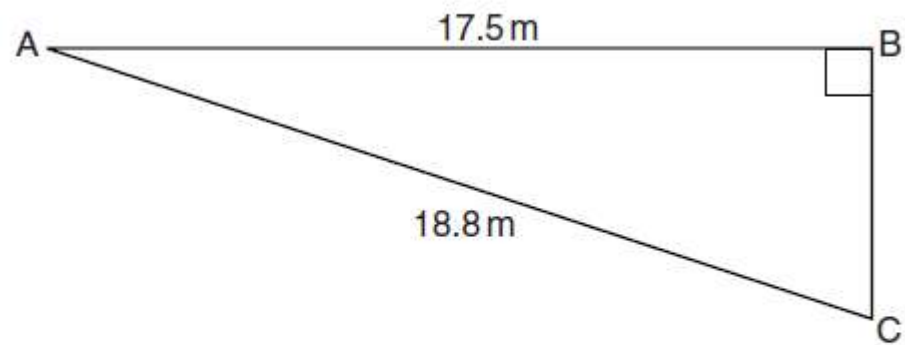
Tuesday 13th June

Foundation Paper 3 and Higher Paper 6 (Calculator)

OLD VERSUS NEW

Old Style Question (so last year...)

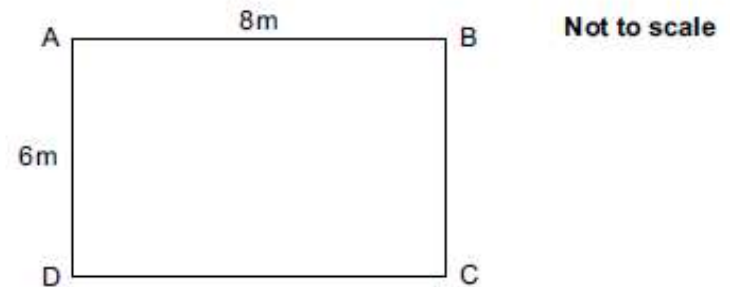
22 ABC is a right-angled triangle.



Calculate BC.
Give your answer correct to 2 decimal places.

New Style Question (trending now...)

21 ABCD is a rectangle.



(a) Sunita calculates the length of AC, but gets it wrong.

$$\begin{aligned}8^2 - 6^2 &= AC^2 \\ \sqrt{28} &= AC \\ \sqrt{28} &= 5.29 \text{ or } -5.29 \\ AC &= 5.29\end{aligned}$$

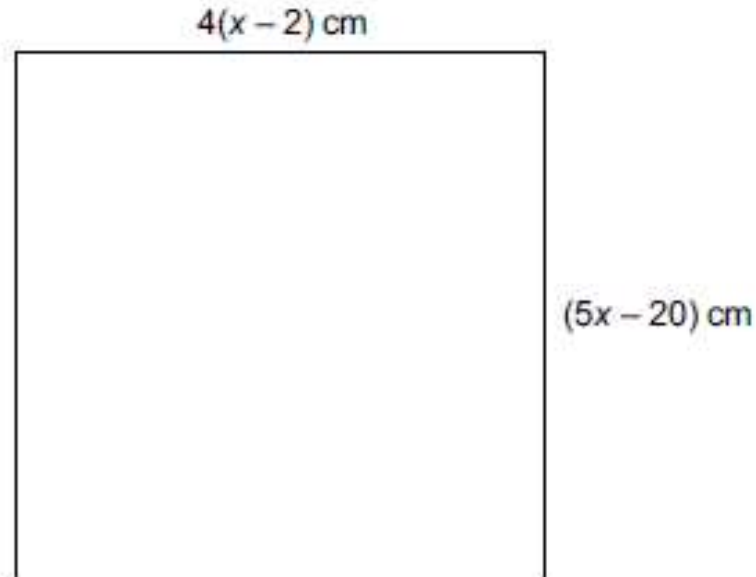
Explain what Sunita has done wrong.

.....

(b) Calculate the length of AC.

LET'S HAVE A GO!

This is a square.



Work out the length of the side of the square.

40

A1 for correct answer only

M1 for $4(x - 2) = 5x - 20$

M1 for $4x - 8 = 5x - 20$

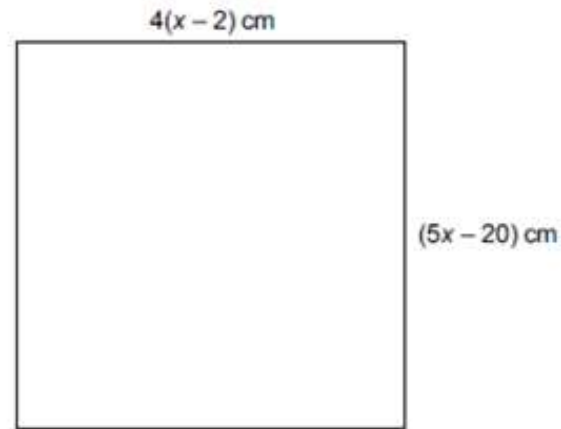
AND

M2 for $x = 12$

Or **M1** for one correct step solving equation

SOLUTION 1

This is a square.



Work out the length of the side of the square.

$$4(x-2) = 5x - 20 \quad \text{(M1)}$$

$$4x - 2 = 5x - 20 \quad \text{X}$$

$$4x + 18 = 5x \quad \text{(M1) correct step.}$$

$$18 = x$$

18

Total 2 marks

40 **A1** for correct answer only

M1 for $4(x-2) = 5x - 20$

M1 for $4x - 8 = 5x - 20$

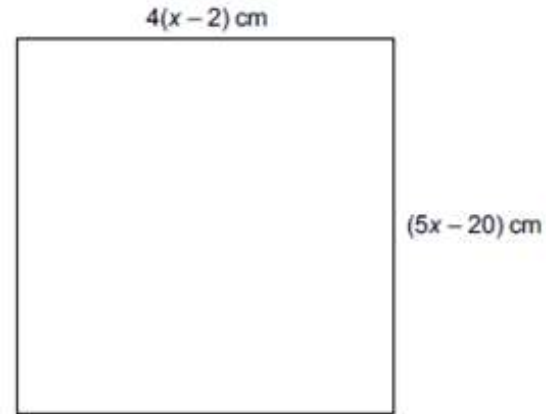
AND

M2 for $x = 12$

Or **M1** for one correct step solving equation

SOLUTION 2

This is a square.



Work out the length of the side of the square.

$$\begin{aligned}4(x-2) &= 5x-20 \quad \checkmark \quad \text{m1} \\4x-8 &= 5x-20 \quad \checkmark \quad \text{m1} \\-8+20 &= 5x-4x \\12 &= x \quad \checkmark \quad \text{m2} \\x &= 12 \quad \checkmark \quad \text{m1} \\&\dots \dots \dots\end{aligned}$$

4 marks

40 **A1** for correct answer only

M1 for $4(x-2) = 5x-20$

M1 for $4x-8 = 5x-20$

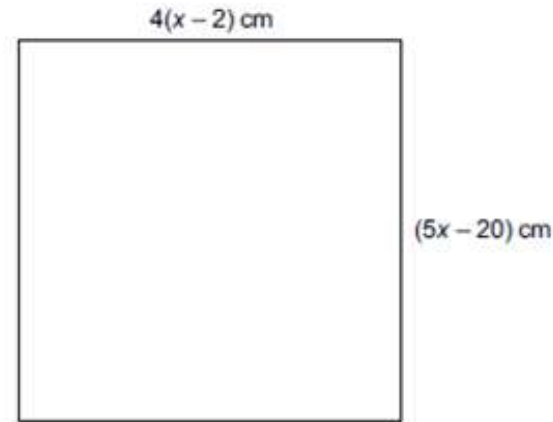
AND

M2 for $x = 12$

Or **M1** for one correct step solving equation

SOLUTION 3

This is a square.



Work out the length of the side of the square.

40 **A1** for correct answer only

M1 for $4(x - 2) = 5x - 20$

M1 for $4x - 8 = 5x - 20$

AND

M2 for $x = 12$

Or **M1** for one correct step solving equation

40 ✓ A1

Total 1 mark.

SOLUTION 4

This is a square.

$4(x - 2)$ cm



$(5x - 20)$ cm

40 **A1** for correct answer only

M1 for $4(x - 2) = 5x - 20$

M1 for $4x - 8 = 5x - 20$

AND

M2 for $x = 12$

Or **M1** for one correct step solving equation

Work out the length of the side of the square.

$$4(x - 2) = 5x - 20 \quad \checkmark \quad \text{m1}$$

$$4x - 8 = 5x - 20 \quad \checkmark \quad \text{m1}$$

$$-8 + 20 = 5x - 4x$$

$$12 = x$$

$$x = 12 \quad \checkmark \checkmark \quad \text{m2}$$

$$\begin{aligned} &5x - 20 \\ &= 5 \times 12 - 20 \\ &= 60 - 20 = 40 \quad \checkmark \text{A1} \end{aligned}$$

Total
5 marks

40

TOP TIPS FOR EXAM REVISION

- Start now – don't delay! Those exams come around sooner than you think.
- Take the mocks seriously
- Use the mocks as a building block for the real GCSEs (personalised revision sheet)
- Practice makes perfect – the best way to revise maths is to DO maths
- Past exam questions are the key
- Online resources are good for the new style questions – especially kerboodle
- Make use of the help offered – find out when revision sessions are and ATTEND
- Keep up to date with homework throughout the year – your teachers set this with exams in mind
- Make a plan – build in breaks and put you phone in another room!

USEFUL ONLINE RESOURCES

<https://www.kerboodle.com/users/login> - Kerboodle for the new style exam resources, individual log ins available from your teacher after half term

www.mymaths.co.uk – Interactive lessons, homework/revision tasks, individual logins

www.hegartymaths.com/gcse - Video tutorials, past paper Qs and worked solutions, not OCR but still relevant

www.mrbartonmaths.com/gcse.htm - Practise questions, written solutions, huge bank of resources

www.examsolutions.net/ - Video lessons, worked exam Qs for a wide range of topics

www.bbc.co.uk/education/subjects/z6pfb9q - BBC Bitesize, revision notes, exam Qs

I PACKED MY BAG AND IN IT I PUT...

Equipment Required:

Casio Natural Display Calculator

Ruler

Pen/Pencil/Rubber/Sharpener

Pair of Compasses (tightened)

Protractor



QUESTION TIME...??



**Any
Questions??**

DON'T PANIC!

