

# GCSE Maths- Numeracy and Maths

Parents Meeting 27 October 2016

# What are exams do we sit?

GCSE Numeracy	GCSE Mathematics
Intermediate Level B-E	Intermediate Level
Two papers Non calculator and Calculator	Two papers Non calculator and Calculator
Paper 1: Wed 2 <sup>nd</sup> Nov .9AM 1hr 45mins	Paper 1: Tues 8 <sup>th</sup> Nov .9AM 1hr 45mins
Paper 2: Friday 4 <sup>th</sup> . 9AM 1hr 45mins	Paper 2: Thurs 10 <sup>th</sup> Nov . 9AM 1hr 45mins
Problem solving , real world type questions. Extended answers. Less topics than GCSE Maths	Very similar to old GCSE style. Includes Probability that isn't in Numeracy and far more Algebra.

# Equipment

Blue Pen	Red Pen	Calculator Casio FX	Protractor	Rubber
Green Pen	Pencil	Ruler	Compass	

# Revision Opportunities

- ▶ Support lessons with Miss S Clue (three a fortnight)
- ▶ Every Tuesday and Thursday with Maths Teacher as form tutor. From 8:30
- ▶ Every Tuesday after school 3Pm until 4PM. Until November examination.
- ▶ Sunday 6<sup>th</sup> November at the school .

# Revision Materials



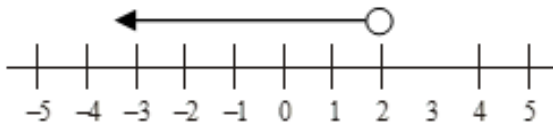
- ▶ GCSE Basic Skills Practice
- ▶ [Grade C-D target Basic Questions](#)
- ▶ Sample Papers for GCSE Maths
- ▶ [Maths Intermediate](#)
- ▶ Numeracy Sample Papers with answers
- ▶ [Numeracy Intermediate](#)
- ▶ Numeracy Sample Papers
- ▶ [Numeracy Papers](#)
- ▶ Past papers for previous style of exam, useful for Maths
- ▶ [Old Spec](#)
- ▶ Functional maths (will be on website)
- ▶ [..\Level 2 past papers](#)

# Revision Websites

- ▶ [Corbett Maths](#)
- ▶ [BBC Bitesize](#)
- ▶ [WJEC Past Papers](#)
- ▶ [My Maths](#)
- ▶ USER :barry
- ▶ Password:maths14

# Basic Skills

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Section A: Numbers & calculating		Section B: Algebra		Section C: Using and	
C.1	1. To increase an amount by 7%, what single multiplier would you use?	C.6	11. Expand & simplify: $(x + 2)(x + 3)$	21.	$3n$
C.1	2. To decrease an amount by 7%, what single multiplier would you use?	C.6	12. Expand & simplify: $(x + 2)(x - 3)$	To find 'a' choose one of $\sqrt{4^2 + 3^2}$ OR $\sqrt{4^2 - 3^2}$	
C.2	3. Increase £28 by 7% 	C.8	13. Solve: $x + 1 < 5$	22.	123 grams is rounded to Write down the maximum it could have been
C.2	4. Decrease £28 by 7% 	C.8	14. Give the inequality 		
C.3	5. Without a calculator work out: $0.2 \times 0.3$	C.9	15. Make n the subject of the formula: $M = 3n$	23.	A plane flies 1440 miles 240mph. How long does it take?
C.3	6. Without a calculator work out: $5 \div 0.1$	C.9	16. Work out the value of: $3x + 2y$ When $x = 5$ and $y = -4$		
C.4	7. Round off 17.2 to one significant figure	C.10	17. Write down the next term in this sequence: 1 4 9 16 25	24.	If the relative frequency on a dice is 0.2, how ma

# Typical Exam question

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3. Dragon CarCare is a car cleaning company.



Dragon CarCare is charged the following costs for products and services.

Car cleaning products	Costs
Car wash liquid	£1 per 5 litre bottle
Window spray	£2 per 2 litre bottle
Wax	£2.50 per 2 litre drum
Cloths and sponges	10p each

Service	Unit cost
Water	£2 per m <sup>3</sup>
	+ Standing charge £4 per month
Electricity	25p per kWh
	+ Standing charge £10 per month
	+ 5% VAT

During June Dragon CarCare used the following quantities of products.

Car cleaning products	Quantity used
Car wash liquid	12 bottles
Window spray	8 bottles
Wax	6 drums
Cloths and sponges	100 cloths + 100 sponges

At the beginning and at the end of June, the meter readings for water and electricity were recorded.

Service	Time: 00:01 Date: 1 June 2014	Time: Midnight Date: 30 June 2014
	Meter reading	Meter reading
Water	3450 m <sup>3</sup>	3950 m <sup>3</sup>
Electricity	3000 kWh	3800 kWh

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(a) How much did Dragon CarCare spend on car cleaning products in June 2014? [3]

3.(a) Car Wash (£)12 + Window (£)16  
+ Wax (£)15 + Cloths (£)20  
(£) 63

(b) Water:  $500 \times (£)2 + (£)4 = £1004$

Electricity:  $800 \times 25(p) + (£)10$

Electricity VAT  $(£)210 \times 5/100 (+210)$

Total (£)1224.5(0)

(c) (£)1287.5(0)

(c) The operating costs for Dragon CarCare is the sum of the water costs, the electricity costs and the cost of the products used.

Calculate the operating costs for Dragon CarCare for June 2014 [1]

M2	M1 any 2 correct in a sum of at least 3 products
A1	CAO
M1	
M1	
m1	(£220.50)
A1	(Services 1004 + 220.50) CAO
B1	FT their total provided M1, M1, m1 awarded
8	