## Year 6 - 2019

# **SATS revision X** ÷



### Tuesday 29nd January 2019

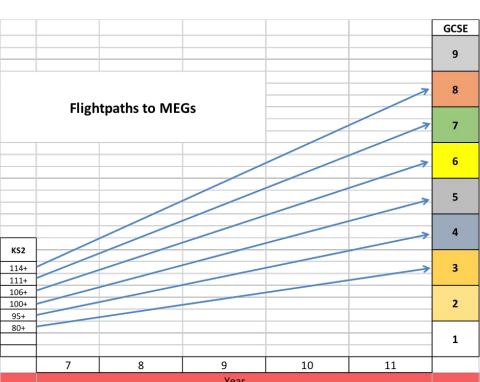
# 10, 000 hour study

**Total Secondary** math hours = 2850 hours Y7 to Y11  Total Primary math hours = 1330 hours Reception to Y6

# Total math hours = 4180

Start	Functional	Elite
0	5000	10,000
	`Meaningful practice`	
	`Mastery of a subject occurs through incremental gains`	

# KS<sub>2</sub> - Where next?



# SATS vs predicted GCSE's

### School measures explanation sheet KS2 to KS3

KS2 Scaled Score (Years 7- 9)	KS2 Level (Years 10-11)	GCSE Base Grade	Base Grade Vocational courses	Historical GCSE Grade Equivalent	
120	6	8	D	A*	
116	5a	7	D	A	
112	5b	7	D		
108	5c	6	D	В	
104	4a	5	M	C+	
100	4b	4	P2	с	
96	4c	4	P2		
92	3a	3	P2	D	
88	3b	3	P2		
84	3c	3	P2		
	2a	2	P1	-	
80	2b	2	P1	E	
	2c	1	P1	E/O	
В	В	1	P1	F/G	

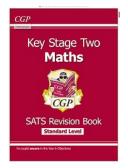
# **Revision timetable**

#### **Revision timetable**

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1							
2							
3							
4							
5							
6							
7							

# The role of family

when little people are overwhelmed by big emotions, it's our job to share our calm, not to join their chaos. -1.r. knost





Channahdsive

SAT Study Time Management



# Can I revise on my own?

## `How do I know if I'm doing it right?`





🔥 My Drive-Google Drive 💦 X 🗖 SVD revision + 8 + Google 1 - X 🕑 Weissene to Schooling Frenzy X 😽 register and SvD reduction. X 🕴 🗞 have noded



### How do I become an independent learner?

### **Resources**

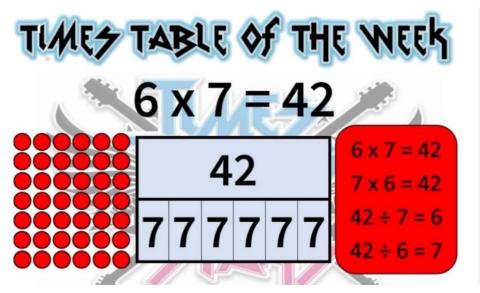
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Q 1

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repectations for every child.

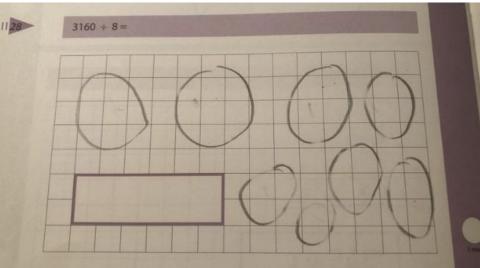


# **MISCONCEPTIONS**



#### Arrays

Arrays can limit children's understanding of multiplication to repeated addition as each 'dot' in the array often represents one.





#### Language summary

Throughout this segment, there is a strong focus on careful use of language to accurately describe division and to reflect the different structures of division.

	Quotitive division contexts	Partitive division contexts	Division calculations with no associated context
Example problem	'There are fifteen biscuits. If I put them into bags of five, how many bags will I need?'	'I have twenty conkers and I share them equally between five children. How many conkers does each child get?'	30 + 10 =
Key language	<b>'…divided into groups of…'</b> e.g. 'Fifteen divided into groups of five is equal to three.'	'divided between' e.g. Twenty divided between five is equal to four each.'	"divided by" e.g. Thirty divided by ten is equal to three."



## Quotitive



### 8 is the total

### 2 is the size of the group

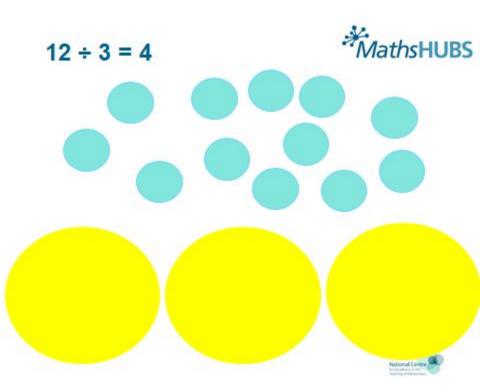
'Eight is divided into groups of two. There are <u>four</u> groups.' There are <u>four</u> groups of two in eight.'

'Eight is the total number of socks.' 'Two is the number of socks in each group/pair.'

'Four is the number of pairs of socks.'

'\_\_\_is divided into groups of \_\_\_. There are \_\_\_ groups.'



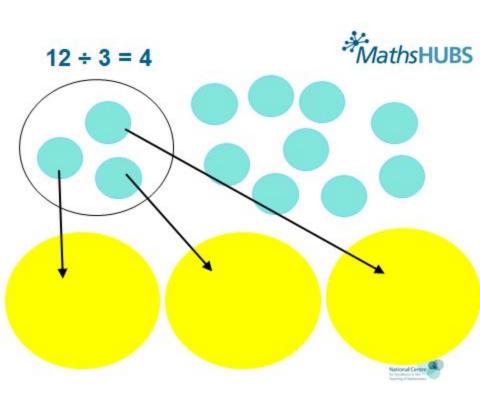


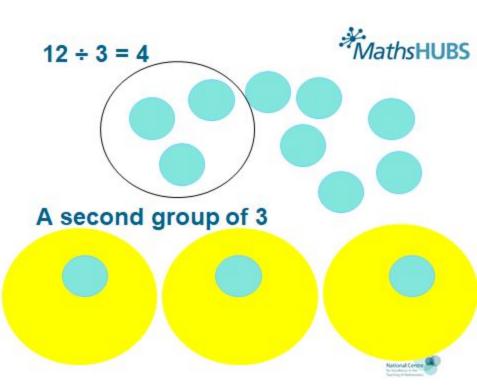


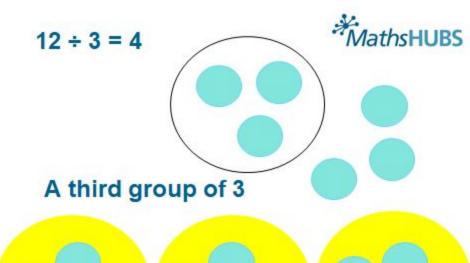


### One group of 3 - one each

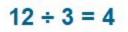














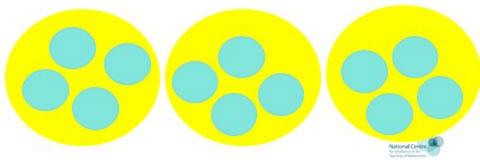
# A fourth group of 3







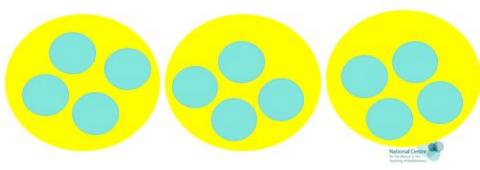
## A fourth group of 3 – four each



## $12 \div 3 = 4$



## All the groups of 3 have been distributed There are 4 in each set 4 groups of 3 were identified and distributed





## **Gattegno Chart**

1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9



### On which structures do we build short and long division strategies?

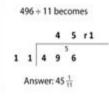










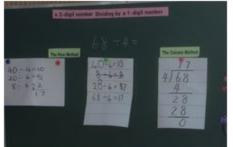


#### Long division

			2	8	r 12				2	8					2	8	. 8
1	5	4	3	2		1	5	4	3	2		1	5	4	3	2	• 0
		3	0	0				3	0	0	15×20		1	3	0	4	1
		1	3	2				1	3	2				1	3	2	
		1	2	0				1	2	0	15×8			1	2	0	1
	1		1	2					1	2					1	2	0
															1	2	0
							븅	*	4					1			0
	ver	28	am	alnd	er 12		Ans	wee	28	0			1	Incu	uar	28-8	



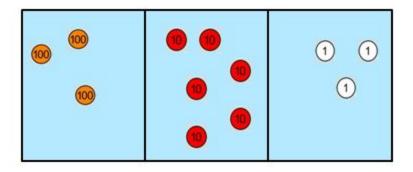




$$40 \div 4 = 10$$
  
 $20 \div 4 = 5$   
 $8 \div 4 = 2$   
17

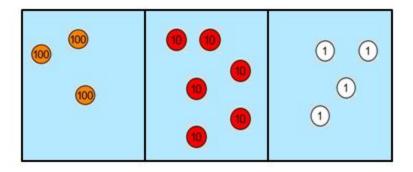


## Context? - partitive or quotitive? $363 \div 3 = 121$ 3 363



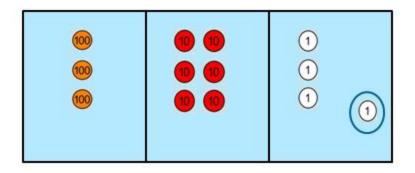


### 364 ÷ 3 =





### 364 ÷ 3 =





345 ÷ 3 =

$$\begin{array}{c|c}
 1 1 5 \\
 3 4 15
 \end{array}$$

