Year 6 - 2019

SATS revision X ÷



Tuesday 29nd January 2019

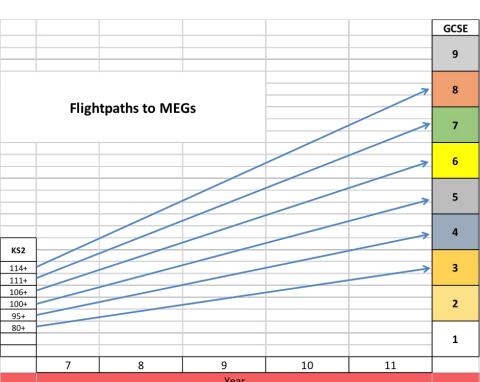
10, 000 hour study

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` | |

KS₂ - 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 | |

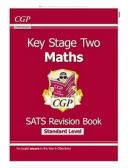
Revision timetable

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

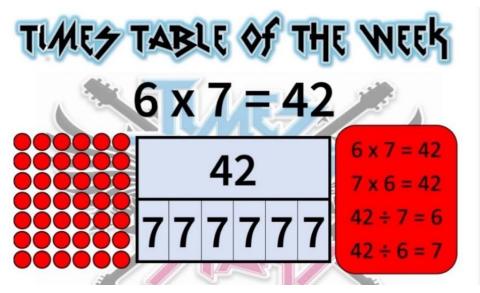
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Q 1

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repectations for every child.

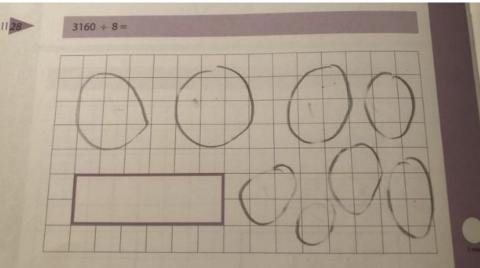


MISCONCEPTIONS



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 | '…divided into groups of…' 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

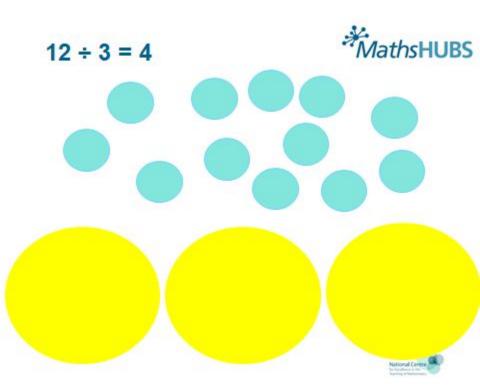
'Eight is divided into groups of two. There are <u>four</u> groups.' There are <u>four</u> groups of two in eight.'

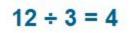
'Eight is the total number of socks.' 'Two is the number of socks in each group/pair.'

'Four is the number of pairs of socks.'

'___is divided into groups of ___. There are ___ groups.'



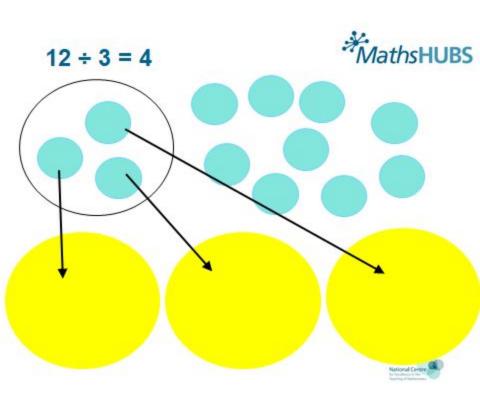


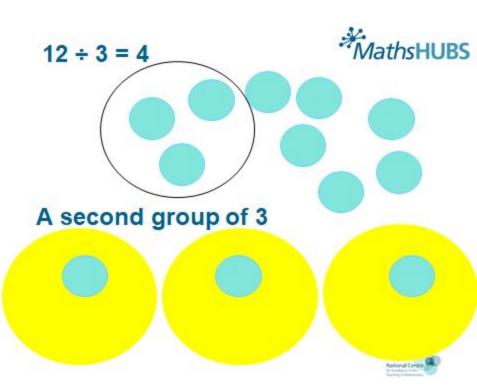


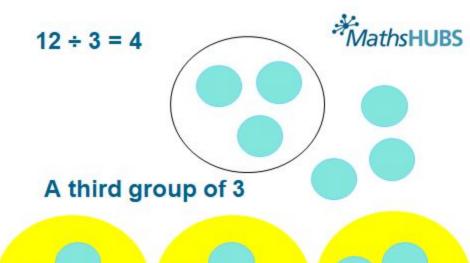


One group of 3 - one each

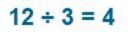














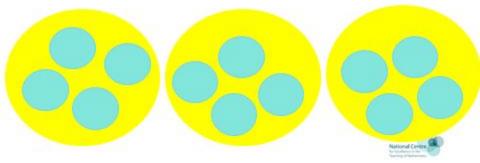
A fourth group of 3







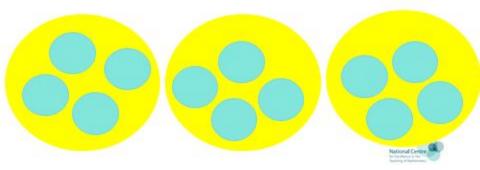
A fourth group of 3 – four each



$12 \div 3 = 4$



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?

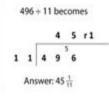










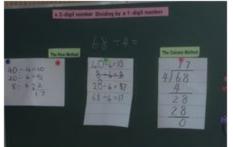


Long division

| | | | 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 | |





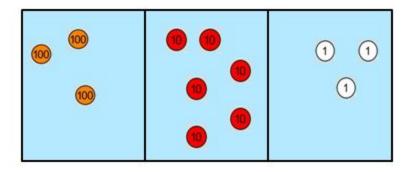


$$40 \div 4 = 10$$

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

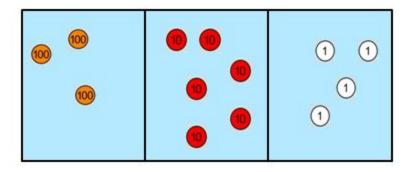


Context? - partitive or quotitive? $363 \div 3 = 121$ 3 363



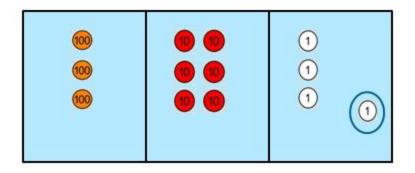


364 ÷ 3 =





364 ÷ 3 =





345 ÷ 3 =

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

