

M. Cornwell 2019



Number Talk Strategies Year 2





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Multiplication Strategies						
Place Value and known facts (see also scaling) Multiplying by 0 and by 1. 2 x0; 1 x 9 8x10 10x9= 6x10= 3x10= 10x10= How many ways can you solve?	Doubles/Halving/Tripling $7x2=$ $3x2=$ $6x2=$ Show link to doubling on arrays.Tripling as well as counting in 3s:Double then bridge to add on lastmultiple. $3x3$ $8x3$ $6x3$. 4 4 4 4 8 Find, x5 by using relationship to10s. $5x8$ $5x12$ $5x6$	Multiplication Strategies Partitioning (Distributive Law) Use arrays to explore 3x2+2x2= How many ways can you solve? 7x5=x 5 andx 5.	Scaling and Associated Language Across tables, use language of scaling. 3x10 means 10 lots of 3 or 3 ten times. Show both on part whole and bar models and number lines (See Times table Programme of Study). Make 3 ten times bigger. Make 6 twice the size/twice as big. Show me 4 five times. Write the calculation.	Compensation 9 x 8, use counting stick, draw number line and use bar models and part whole models to show relationship between 10x and 9x. Use same strategy to help find 11x or 12x. Image: Compensation of the strategy of the		
	5×6 $5 5 5 5 5 5$ $10 10 10$					
	10x5= 20x5=					

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Division Strategies					
Place value and known facts	Halving	Scaling and Associated Language			
Explore both grouping/Sharing (See Times Table Programme of Study).	Methods should involve discussion about division by 2 as halving.	Divide by 10, make 10 times smaller/10 times as small. Divide by 2, half as many/much.			
$35 \div 1$ $50 \div 1$ 5+5 $10 \div 10$ $40 \div 10 =$ $80 \div 10 =$ $120 \div 10 =$ (Use of unitising language - 12 tens \div 10). <u>Grouping/Sharing</u> Begin to make decision about whether to share or group in arithmetic situation. E.g. E.g. 40 ÷ 2, more efficient to share (halve) rather than group in twos. $\underbrace{40}_{2}$ E.g. 40 ÷ 10. More efficient to take away groups of 10 rather than sharing between 10 people. $\underbrace{40}_{10}_{10}$	2+2= 12+2= 14+2= Use arrays, part whole model and bar models.	$\begin{array}{l} 40 \div 10\\ 80 \div 10\\ 120 \div 10 \end{array}$ Explore relationships with part whole models, bar models and number lines. $\begin{array}{c} -x \ 5 = 20\\ \text{(How many groups of five are in 20).} \end{array}$			

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Fractions Strategies.				
Half of numbers to 20. Halve the ten then halve the ones. $\frac{1}{2}$ of 14 $\frac{10}{52}$ of 16	Find quarters by halving and halving again. $ \begin{array}{r} 16\\ 8\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\$			
Halves of multiples of 10. $\frac{1}{2}$ of 30 $\frac{1}{2}$ of 40 $\frac{1}{2}$ of 90	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			



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