

Knowledge and Strategy	STAGE 0	Emergent
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	<h2 style="margin: 0;">Learning Outcomes</h2> <h3 style="margin: 0;">KNOWLEDGE</h3> <p style="margin: 0;">I am learning to.....</p>	
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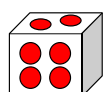
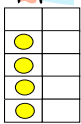

NI	Read numbers to 5 first and then to 10	0, 1, 2, 3, 4, 5 6, 7, 8, 9, 10								
Sequencing and Ordering	Count forwards to 5 first and then to 10	0, 1, 2, 3, 4, 5...10								
	Count backwards from 5 first and then from 10	5, 4, 3, 2, 1, 0								
	Say the number after a number (in the range 1- 5)	3, 4,								
	Say the number before a number (in the range 1 - 5)	, 4, 5								
	Order numbers to 5 first and then to 10	5 3 1 2 4								

	<h2 style="margin: 0;">STRATEGY</h2> <p style="margin: 0;">I am learning to.....</p>	
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Count a set of objects up to 5 first and then to 10 by one-to-one matching	<div style="display: flex; justify-content: space-around; width: 100%;"> 123 </div> <p>3 ladybirds</p>								
Form a set of objects up to 5 first and then to 10 by one-to-one matching	<p><i>Get 2 teddies</i></p> <div style="display: flex; justify-content: space-around; width: 100%;"> 12 </div>								

Knowledge and Strategy	STAGE 1	One-to-One Counting
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<h2>Learning Outcomes</h2> <h3>KNOWLEDGE</h3> <p>I am learning to.....</p>		
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Sequencing and Ordering	NI	Read numbers to 10	7, 6, 8										
		Count forwards to 10	1, 2, 3, 4, 5,										
		Count backwards from 10	10, 9, 8, 7, 6										
		Say the number after a number (in the range 1- 10)	4, 5, 										
		Say the number before a number (in the range 1 - 10)	 , 4, 5										
		Order numbers to 10	5 3 1 8 2 7										
Grouping		Instantly recognise patterns to 5	   										

<h2>STRATEGY</h2> <p>I am learning to.....</p>		
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Count and form a set of objects up to 10	 1 2 3 4 5 6 7 7 faces										
Join and split objects in groups	 and  										

KNOWLEDGE	STAGE 2	Counting From One On Materials								
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Learning Outcomes Knowledge I am learning to...										
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NI	Read any number up to 20	17, 6, 18								
Sequencing and Ordering	Count forwards from any number up to 20	14, 15, 16								
	Count backwards from any number up to 20	15, 14, 13								
	Say the number after a number in the range 1- 20	14, 15,								
	Say the number before a number in the range 1 - 20	, 14, 15								
	Order numbers to 20	6, 13, 17, 20								
Basic Facts	Know groupings within 5	3 and 2 4 and 1								
	Know groupings with 5	5 and 2								
Frac'n	Read symbols for halves and quarters	$\frac{1}{2}$ $\frac{1}{4}$								

STRATEGY I am learning to.....										
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Solve + problems to 10 by counting all the objects	$6 + 3 = 9$									
Solve - problems to 10 by counting all the objects	$6-3$									

KNOWLEDGE	STAGE 3	Counting From One By Imaging
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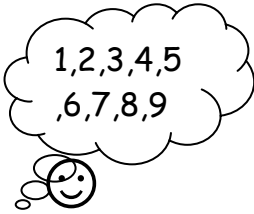

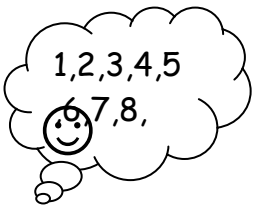
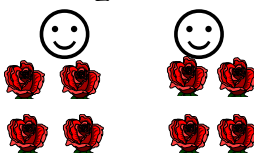
At this stage these are the key pieces of knowledge that the children need to learn.

<h2>Learning Outcomes</h2> <h3>Knowledge</h3> <p>I am learning to...</p>									
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NI	Read any number up to 20	17, 6, 18									
Sequencing & Ordering	Count forwards from any number up to 20	14, 15, 16									
	Count backwards from any number up to 20	15, 14, 13									
	Say the number after a number in the range 1- 20	14, 15,									
	Say the number before a number in the range 1 - 20	, 14, 15									
	Order numbers to 20	6, 13, 17, 20									
	Skip count forwards & backwards in 2's, 5's & 10's		2, 4, 6, 8, 10.....20								
			5, 10, 15, 20.....50								
		10, 20, 30, 40....100									
Grouping / PV / Basic Facts	Know groupings within 10	7 and 3									
	Instantly recognise patterns to 10 - doubles and 5 based										
	Know doubles to 10	$5 + 5 = 10$									
Fract'n	Read symbols for halves and quarters	$\frac{1}{2}$ $\frac{1}{4}$									

STRATEGY	STAGE 3	Counting From One By Imaging
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At this stage the children are learning to

Learning Outcomes Strategy I am learning to...											
<p>ADDITION</p> <p>Solve simple + problems by counting all the objects in their head</p>	<p>$6 + 3 =$</p> 										
<p>SUBTRACTION</p> <p>Solve simple - problems by counting all the objects in their head.</p>	<p>$6 - 3 =$</p> 										
<p>MULTIPLICATION</p> <p>Solve simple x and ÷ problems by counting all the objects</p>	<p>$4 \times 2 =$</p> 										
<p>FRACTIONS</p> <p>Find $\frac{1}{2}$ and $\frac{1}{4}$ of shapes or sets to 20 by equal sharing of the objects</p>	<p>$\frac{1}{2}$ of 8 =</p> 										



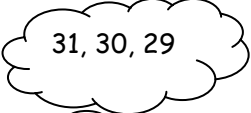

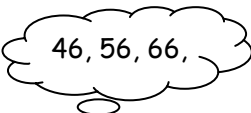

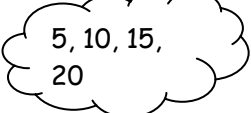



KNOWLEDGE	STAGE 4	Advanced Counting
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At this stage these are the key pieces of knowledge that the children need to learn.

Learning Outcomes Knowledge I am learning to...									
NI	Read any number up to 100	17, 26, 38							
Sequencing & Ordering	Count forwards from any number up to 100	34, 35, 36							
	Count backwards from any number up to 100	75, 74, 73							
	Say the number after and before a number 1- 100	54, 55,							
		, 54, 55							
	Order numbers to 100	26, 33, 54, 71							
	Count forwards & backwards in 2's, 5's, & 10's to 100	2, 4, 6, 8,..... 100							
5, 10, 15, 20.....100									
10, 20, 30,40.....100									
Grouping/ PV	Know number of 10's in decades	six 10's in 60							
	Know groupings within 20	17 + 3, 4 + 16							
Basic Facts	Know teen number facts	10 + 6 = 16 10 + ? = 18							
	Know multiples of 10 that add to 100	30 + 70 = 100							
	Know doubles and halves to 20	3 + 3, 6 - 3 $\frac{1}{2}$ of 6							
	Know addition facts to 10	4 + 3 = 7							
Fract'n	Read unit fractions	$\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{5}, \frac{1}{10}$							



<h1>STRATEGY</h1>	<h1>STAGE 4</h1>	<h1>Advanced Counting</h1>
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At this stage the children are learning to

<h2 style="text-align: center;">Learning Outcomes</h2> <h3 style="text-align: center;">Strategy</h3> <p style="text-align: center;">I am learning to...</p>									
<p style="text-align: center;">ADDITION</p> <p>Solve + problems by counting on from the largest number in my head.</p>	$16 + 3 =$  								
<p style="text-align: center;">SUBTRACTION</p> <p>Solve - problems by counting back from the largest number in my head.</p>	$32 - 3 =$  								
<p>Solve + and - problems by counting on or back in ones and tens</p>	$36 + 40 =$  								
<p style="text-align: center;">MULTIPLICATION</p> <p>Solve x problems by skip counting in 2's, 5's, or 10's</p>	$4 \times 5 =$  								
<p style="text-align: center;">FRACTIONS</p> <p>Find $\frac{1}{2}$ and $\frac{1}{4}$ of sets and shapes by equal sharing</p>	$\frac{1}{2}$ of 8 =  								

KNOWLEDGE	STAGE 5	Early Additive Part-Whole
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At this stage these are the key pieces of knowledge that the children need to learn.

Learning Outcomes Knowledge I am learning to....									
NI	Read any number up to 1000	333, 479, 983							
Sequencing & Ordering	Count forwards & backwards by 1's, 10's, 100's	325, 335,..1000							
	Say the number 1 more, 10 more, 100 more	145, 155, 							
	Say the number 1 less, 10 less, 100 less	 _____, 154, 164							
	Order numbers to 1000	126, 433, 754,							
	Skip count forwards & backwards in 3's,	3, 6, 9, 12.....30 <i>(as well as in 2's, 5's, & 10's)</i>							
Fractions	Know unit fraction symbols	$\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{5}, \frac{1}{10}$							
	Order fractions with the same denominators	$\frac{1}{4}, \frac{3}{4},$							
Grouping / PV	Know groupings of 10's in a 3 digit number	$327 = 32 \text{ tens}$							
	Know groupings to 100	43 and 57							
	Round 3 digit numbers to the nearest 10 or 100	246 \rightarrow 250							
Basic Facts	Know addition facts to 20	$12 + 8 = 20$							
	Know multiples of 100 that add to 1000	400 and 600							
	Know multiplication & division facts for x2,x5,x10	$5 \times 2 = 10$ $60 \div 10 = 6$							

STRATEGY	STAGE 5	Early Additive Part-Whole
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At this stage the children are learning to.....

Learning Outcomes Strategy I am learning to....										
<p style="text-align: center;">ADDITION & SUBTRACTION</p> <p style="text-align: center;">Solve simple problems mentally using basic facts they know:</p> <ul style="list-style-type: none"> • Doubles: $8 + 7 = 8 + 8 - 1$ • Fives: $8 + 7 = 5 + 3 + 5 + 2$ • Making Tens: $8 + 7 = 8 + 2 + 5$ 	<p>$8 + 7 =$</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 10px auto;"> <p>Double 8 is 16 so minus 1</p> </div>									
<p style="text-align: center;">ADDITION & SUBTRACTION</p> <p style="text-align: center;">Solve 2 & 3 digit problems by:</p> <ul style="list-style-type: none"> • Tidy Numbers: $29 + 18$ as $30 + 17$ • Place Value: $33 + 16$ as $30 + 10 + 3 + 6$ 	<p>$29 + 1$ is 30 so now just add 17</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 10px auto;"> <p>$29 + 1$ is 30 so now just add 17</p> </div>									
<p style="text-align: center;">MULTIPLICATION & DIVISION</p> <p style="text-align: center;">Solve problems by:</p> <ul style="list-style-type: none"> • using repeated addition with problems involving 2's, 3's, 4's, 5's and 10's at least • or forming the factors when the basic fact is known. 	<p>$8 \times 5 =$</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 10px auto;"> <p>$5 + 5 = 10,$ so $10 + 10 + 10 + 10 = 40$</p> </div>									
<p style="text-align: center;">FRACTIONS</p> <ul style="list-style-type: none"> • Find a fraction of a number by trial and improvement with addition facts. • Find fractions of shapes and lengths including fractions greater than 1 • Order fractions 	<p>$\frac{1}{3}$ of 12 =</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 10px auto;"> <p>$4 + 4 + 4 = 12,$ so $\frac{1}{3}$ is 4.</p> </div>									

KNOWLEDGE	Stage 6	Advanced Additive
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At this stage these are the key pieces of knowledge the children need to learn.

Learning Outcomes Knowledge I am learning to...										
NI / Sequencing & Ordering / Fractions	Read and order any number up to 1000 000	698,999								
	Read decimals to 3 d.p	0.764								
	Read any fraction inc. >1	$\frac{8}{6}, \frac{4}{5}, 1\frac{1}{3},$								
	Order unit fractions	$\frac{1}{10}, \frac{1}{8}, \frac{1}{4}, \frac{1}{2},$								
	Say the number 1, 10, 100 and 1000 more or less	654, 754, 854.. 8432, 7432, ...								
	Count forwards and backwards in $\frac{1}{2}$'s, $\frac{1}{4}$'s, $\frac{1}{3}$'s, $\frac{1}{5}$'s, $\frac{1}{10}$'s	$\frac{8}{10}, \frac{9}{10}, 1, 1\frac{1}{10}$								
Grouping & Place Value	Know groupings of 10's and 100's in a 4 digit number	4676 = 467 tens and 46 hundreds								
	Know groupings within 1000	455 and 555 200 and 800								
	Know groups of 2's, 3's, 5's and 10's in numbers to 100 and any remainders	threes in 17 = 5 and 2 remainders								
	Round whole numbers to the nearest 10, 100, 1000	5508 → 6000								
	Round decimals to the nearest whole number	3.49 → 3								
Basic Facts	Recall all basic multiplication facts	$3 \times 8 = 24,$ $7 \times 7 = 49$								
	Recall addition & subtraction facts to 20	$13 + 5 = 18$ $16 - 9 = 7$								
	Know what happens when you multiply by 1, 0 or 10	$14 \times 10 = 140$								



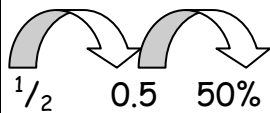
STRATEGY	STAGE 6	Advanced Additive
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At the Advanced Additive Part-Whole stage the children are learning to . . .

Learning Outcomes Strategy I am learning to...																				
ADDITION and SUBTRACTION: using a broad range of mental strategies																				
Compensation (from Tidy Numbers)	$394 + 79 \rightarrow$ $(394 + 80) - 1$																			
Place Value Partitioning	$394 + 79 \rightarrow$ $390 + 70 + 9 + 4$																			
Compatible Numbers:	$45 + 37 + 65 \rightarrow$ $(45 + 65) + 37$																			
Reversibility:	$403 - 97 \rightarrow$ $97 + ? = 403$																			
Equal Additions: (add to both numbers)	$403 - 97 \rightarrow$ $406 - 100$																			
Standard written form for Addition	$\begin{array}{r} 4394 \\ + 579 \\ \hline \end{array}$																			
Standard Written form for Subtraction	$\begin{array}{r} 2403 \\ - 1097 \\ \hline \end{array}$																			
MULTIPLICATION and DIVISION : deriving multiplication facts																				
Doubling	$8 \times 3 \rightarrow 2 \times (4 \times 3)$																			
Adding and Subtracting	$8 \times 3 \rightarrow (7 \times 3) + 3$																			
Reversing	$63 \div 9 \rightarrow 9 \times ? = 63$																			
Doubling and halving	$3 \times 12 \rightarrow 6 \times 6$																			
Rounding/Compensation:	$9 \times 6 \rightarrow (10 \times 6) - 6$																			
Multiplying by tens and hundreds	$70 \times 5 \rightarrow 7 \times 5 \times 10$																			
FRACTIONS: using multiplication and division strategies																				
Find fractions of whole numbers	$\frac{3}{4}$ of 24 = ? $\frac{3}{4}$ of what is 21?																			
Solve simple equivalent ratio and rate problems	$2 : 3$ so $? : 6$																			
Compare fraction sizes with whole numbers	$\frac{37}{7} = 5\frac{2}{7}$																			

KNOWLEDGE	STAGE 7	Advanced Multiplicative Part-Whole
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At this stage these are the key pieces of knowledge the children need to learn.

Learning Outcomes Knowledge I am learning to...										
Sequencing & Ordering	Count forwards and backwards in $\frac{1}{1000}$'s, $\frac{1}{100}$'s, $\frac{1}{10}$'s, 1's, 10's, etc.	1.2, 1.3, 1.4 6.43, 6.43, 6.41								
	Say the number $\frac{1}{1000}$, $\frac{1}{100}$, $\frac{1}{10}$, 1, 10, before or after any number	1.2, 1.3,   6.42, 6.43								
Fractions	Order decimals to 3.d.p	0.379, 0.48, 0.8								
	Order mixed fractions with $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$, $\frac{1}{10}$	$\frac{2}{10}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{5}{3}$,								
	Know equivalent fractions for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$, $\frac{1}{10}$ with denominators 10,100,1000	$\frac{1}{4} = \frac{25}{100}$,								
Grouping / PV	Know groupings of 10's, 100's & 1000s in 7 digit nos.	3 456 789 = 345 678 tens								
	Round whole numbers & decimals to nearest 1 or $\frac{1}{10}$	0.47 \rightarrow 0.5								
Basic Facts	Recall all multiplication and division facts to 10×10	$8 \times 7 = 56$ $72 \div 9 = 8$								
	Recall conversions between decimals, fractions & % with $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$, $\frac{1}{10}$	 $\frac{1}{2}$ 0.5 50%								
	Use divisibility rules for 2,3,5,9,10	245 = divisible by 5 as ones is a 5								
	Know square no's & square roots to 100	$7^2 = 49$ so $\sqrt{49} = 7$								
	Identify factors of numbers to 100	Factors of 35 = 1, 5, 7, 35								
	Find common multiples of numbers to 10	Common multiple of 3 & 7 is 21, 42, 63.....								

STRATEGY	STAGE 7	Advanced Multiplicative Part-Whole
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At the Advanced Multiplicative Part-Whole stage the children are learning to.....

Learning Outcomes Strategy I am learning to...																			
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ADDITION & SUBTRACTION: broad range of strategies for whole numbers & decimals

Compensation from Tidy Numbers	$3.2 + 1.95 \rightarrow (3.2 + 2) - 0.05$																			
Place Value Partitioning	$8.65 + 4.2 \rightarrow 8. + 4 + 0.6 + 0.2 + 0.05$																			
Reversibility	$6.03 - 5.8 \rightarrow 5.8 + ? = 6.03$																			
Equal Additions:	$7.2 - 3.7 \rightarrow 7.5 - 4 = 3.5$																			
Standard written form for + and -	$\begin{array}{r} 7.2 \\ - 3.7 \\ \hline \end{array}$																			
Negatives (Integers)	$6.4 - 7.2 = -0.6$																			
Simple equivalent fractions	$\frac{3}{4} + \frac{3}{8} = \frac{6}{8} + \frac{3}{8} = \frac{9}{8}$																			

MULTIPLICATION and DIVISION: broad range of strategies for whole numbers:


Compensation from Tidy Numbers	$19 \times 6 = (20 \times 6) - 6$ $56 \div 4 \rightarrow (60 \div 4) - 1$																			
Place Value	$28 \times 7 \rightarrow (20 \times 7) + (8 \times 7)$ $72 \div 4 \rightarrow (40 \div 4) + (32 \div 4)$																			
Reversibility	$63 \div 9 = 9 \times ? = 63$																			
Proportional Adjustment	$75 \times 4 \rightarrow 25 \times 12$ $81 \div 3 \rightarrow (81 \div 9) \times 3$																			
Express remainders as fractions, decimal or whole numbers	$38 \div 6 = 6 \text{ r}2 \text{ or } 6 \frac{1}{3} \text{ or } 6.33$																			
Standard written forms for X and ÷	$\begin{array}{r} 476 \\ \times 8 \\ \hline \end{array}$ $6 \overline{)845}$																			

FRACTIONS, DECIMALS, RATIOS AND PROPORTIONS using: (based on mult'n & div'n)

Unit fractions:	$\frac{5}{8} \times 72 \rightarrow 5 \times (\frac{1}{8} \times 72)$																			
Place value:	$3.4 \times 8 \rightarrow (3 \times 8) + (0.4 \times 8)$																			
Compensation from tidy numbers:	$2.9 \times 6.3 = (3 \times 6.3) - (0.1 \times 6.3)$																			
Equivalent fractions	$40\% \text{ of } 35 = \frac{2}{5} \text{ of } 35$																			

KNOWLEDGE	STAGE 8	Advanced Proportional Part- Whole
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At this stage these are the key pieces of knowledge the children need to learn.

Learning Outcomes Knowledge I am learning to...										
Sequencing & Ordering	Count forwards and backwards in $\frac{1}{1000}$'s, $\frac{1}{100}$'s, $\frac{1}{10}$'s, 1's, 10's, etc.	1.2, 1.3, 1.4 6.43, 6.43, 6.41								
	Say the number 0.001, 0.01, 0.1, 1, 10 before/after decimal numbers	6.42, 6.52, 								
	Order fractions, decimals and percentages	0.4, 50%, $\frac{4}{5}$								
Grouping / Place Value	Know how many $\frac{1}{10}$'s, $\frac{1}{100}$'s, & $\frac{1}{1000}$'s, are in numbers to 3 d.p.	1.873 \rightarrow 18 tenths, or 187 hundredths etc.								
	Know what happens when any number is multiplied or divided by a power of ten.	$1.23 \times 100 = 123$ $6.53 \div 10 = 0.653$								
	Round decimals to the nearest 100, 10, 1, 0.1 or 0.01	9.876 \rightarrow 9.88								
Basic Facts	Recall fraction, decimal & % conversions for commonly used fractions: ($\frac{1}{8}$'s, $\frac{1}{10}$'s, $\frac{1}{20}$'s etc)	$\frac{1}{8} = 0.125 = 12.5\%$								
	Know simple powers of numbers to 10	$2^3 = 8$								
	Use divisibility rules for 2,3,4,5,6,8,9,10	<i>276 is divisible by 3 because $2 + 7 + 6 = 15$</i>								
	Identify common factors of pairs of numbers to 100	<i>Highest common factor of 72 & 81 = 9</i>								
	Identify lowest common multiple of pairs of numbers to 10	<i>The LCM of 6 & 8 = 24</i>								
	Recall prime numbers to 20	e.g. 1,2, 3, 5, 7..								

STRATEGY	STAGE 8	Advanced Proportional Part- Whole
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At this stage the children are learning to.....

Learning Outcomes																				
Strategy																				
I am learning to...																				
Solve + - x and ÷ problems with fractions and decimals by using:																				
Conversion between fractions and decimals	$0.75 \times 2.4 \longrightarrow$ $\frac{3}{4} \times 2.4$																			
Place value	$0.15 \times 3.6 \longrightarrow$ $0.1 \times 3.6) + (0.05 \times 3.6)$																			
Doubling and halving	$7.2 \div 0.4 \longrightarrow$ $(7.2 \div 0.8) \times 2$																			
Commutativity	$48 \times 0.125 \longrightarrow$ $0.125 \times 8 = \frac{1}{8} \text{ of } 8$																			
Multiplying numerators and denominators	$\frac{3}{4} \times \frac{2}{5} \longrightarrow$ $\frac{3 \times 2}{4 \times 5}$																			
Converting to common denominators	$\frac{3}{5} + \frac{2}{7} = \frac{21}{35} + \frac{10}{35}$ $\longrightarrow \frac{31}{35}$																			
Use written forms for: Add'n & sub'n of <i>whole nos</i> & <i>decimals to 3dp</i> Mult'n & div'n of <i>whole nos</i> & <i>decimals x single digit</i> Mult'n of <i>4 digit x 2 digit whole no's</i>	3.567 $+ 0.063$																			
	6.45 $\times 3 \quad 5)4.83$																			
	6735 $\times 85$																			
Find fractions, decimals & percentages of given amounts	$65\% \text{ of } 24 \longrightarrow$ $50\% \text{ of } 24 = 12, 10\% \text{ of } 24 = 2.4$ $5\% \text{ of } 24 = 1.2$ $\text{so } 65\% = 12 + 2.4 + 1.2$ $28 \text{ out of } 42 = ?\% \longrightarrow$ $\frac{28}{42} = \frac{4}{6} = \frac{2}{3} = 66.6\%$																			
Solve problems with ratios, rates and proportions by:																				
Finding equivalent ratios with a common factor or multiplier	$21 : 28 \text{ as } ? : 8 \longrightarrow$ $21 : 28 = 3 : 4 \text{ so } 6 : 8$																			
	$3:5 = ? : ? \text{ out of } 96 \longrightarrow$ $\text{As } 3:5 \text{ is } \frac{3}{8}, \frac{3}{8} \text{ of } 96 = 36,$ $\text{so the proportion is } 36 : 60$ \longrightarrow																			