ADDITION

| ST | STATUTORY EXPECTATIONS Rapid Recall/Mental Calculations Non-statutory guidance | | | | | | | | | | | | |
|--|--|--|--|--|---|---|--|---|--|--|--|---|---|
| | YR | Count from 1-20 and say which no. is 1 more than a given no. Using quantities objects, + two U nos and count on to find the answer. [Expected] Estimate no. of objects; check quantities by counting up to 20. [Exceeding] | Hannah listed how many girls and how many boys were outside. [She] was able to say that "There are 5 girls and 4 boys. That's 9 altogether". When playing in the shop Christopher used his shopping list to add 2 amounts. He said "the beans are 5 pence and the bananas are 3 pence, altogether that is 8 pence." Ig [EYFS Profile exemplifications, STA] Pupils use concrete objects and pictorial representations (eg place value counters, Dienes) Practical/r using ICT Pictures/S (see above) | | boys I eat 2 are 5 girls How r shopping pence | How many cakes did we eat altogether? $2+3=5$ next stop. | | | eople are on th | e bus. 5 more get on at the are on the bus now | | | |
| focus must be language, facts and values | Y1 | Add (and subtract) one-digit and two-digit numbers to 20 (9 + 9, 18 - 9), including zero Read/write/interpret statements involving addition (+), subtraction (-) and equals (=) signs. | | | Practical/recorded using ICT Pictures/Symbolic (see above) | T (modelled using bead strings) 13 + 5 = 1 Symbolic 13 + 5 = 18 13 + 5 = 1 | | 8 + 5 + 13 +1 +1 +1 +1 10 + 3 = 13 | | Represent/use number bonds (and related subtraction facts) within 20. Missing number problems (eg 16 = ? + 9) | Memorise/reason with bonds to 10/20 in several forms (eg 9 + 7 = 16; 16 - 7 = 9; 7 = 16 - 9). Pupils should realise the effect of adding or subtracting zero - establishes +/- as related operations. Pupils combine and increase numbers, counting forwards and backwards. | | |
| KS1 focus | Y2 | TU + U TU + tens TU + TU U + U + U [Show addition of two numbers can be done in any order.] | | | | Visual (efficient jumps) 47 + 35 = 82 + 30 47 + 35 = 82 + 30 47 + 35 = 82 + 30 + 30 + 3 + 2 40 + 30 = 70 7 + 5 = 12 Reinforced by using a 100 square | | | 35 + 47 = 82 40 + 30 = 70 | + | pact vertical 374 248 622 | Recall and use addition facts to 20 fluently. Derive and use related facts up to 100. Solve problems by applying increasing knowledge of mental methods. | Pupils extend understanding of the language of + to include sum . Practise + to 20 to derive facts such as using 3 + 7 = 10 to calculate 30 + 70 = 100, 100 - 70 = 30 and 70 = 100 - 30. Check calcs, including by adding numbers in a different order to check +. Establishes commutativity and associativity of addition. |
| | Y3 | Use formal written methods of columnar addition. TU + TU HTU + TU HTU + HTU | Number line $285 + 57 = 342$ + 50 + 7 285 335 342 No number line 57 + 285 = 342 285 + 50 = 335 335 + 7 = 342 | | + 285 = 342 85 + 50 = 335 | Compact vertical 374 $+ \frac{248}{622}$ | | Estimate answers and use inverse to check. | | HTU + U; HTU + tens HTU + hundreds Use number facts and place value to solve problems. For mental calcs with TU nos, answers could be >100. | | | |
| | Y4 | Use formal written methods of columnar addition. HTU + HTU ThHTU + HTU ThHTU + HTU ThHTU + ThHTU | Estimate and use inverse operations to check answers to calculation. Estimate, compare and calculate different measures, including money in pounds and pence. | | | 789 + 5735 deciding which of why. + 6 4 2 5737 Solve simple mea | | deciding which ope why. Solve simple measu | ve addition two-step problems in contexts, iding which operations and methods to use & v. ve simple measure and money problems involving tions and decimals to 2dp | | Pupils continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid fluency. | Pupils build on their understanding of place value and decimal notation to record metric measures, including money. | |
| | Y5 | Add whole numbers >4 digits, including using formal written methods (columnar addition). Decimals up to 2dp (eg 72.5 + 45.7) | and determine, in the context of a problem, levels of accuracy. Solve addition multi-step problems in contexts, deciding which operations and methods to use Use all four op | | | ns involving converting between units of time. If perations to solve problems involving measure [eg length, a, money] using decimal notation including scaling. | | Compact verticalPupils practise adding decimals, including a mix23.70of whole numbers and+ 48.56decimals, decimals with72.26different numbers of decimal places, and complements of 1. | | Add numbers mentally with increasingly large numbers (eg 12462 + 2300 = 14762). Pupils mentally add tenths, and one-digit whole numbers and tenths. | They extend their knowledge of fractions to thousandths and connect to decimals and measures. Pupils should go beyond the measurement and money models of decimals (eg by solving puzzles. | | |
| | Y6 | Solve multi-step problems in contexts, deciding which operations/methods to use and why. Decimals up to 3dp (Context: Measures) | answers to calculations and determine, in the context of a problem an involving subtractions Solve probl | | | plems which require answers to be rounded to specified degrees of accuracy.] plems involving the calculation and conversion of units of measure, using ptation to 3dp where appropriate. [<i>Measurement</i>] | | | Compact v 3.243 + 18.070 21.313 1 1 | 3 0 3 | Perform mental calculations, including with mixed operations and large numbers. Using the number line, pupils add positive and negative integers for measures such as temperature. | Pupils develop skills of rounding/estimating to predict/check order of magnitude of ans to decimal calcs. Includes rounding answers to a degree of accuracy & checking reasonableness. | |

SUBTRACTION

| Rapid Recall/Mental Cal | culations | Non-statutory | quidance |
|-------------------------|-----------|---------------|----------|
| | | | |

| STATUTORY EXPECTATIONS SUBTRACTION Rapid Recall/Mental Calculations No | | | | | | | n-statutory guidance | | |
|--|----|---|--|---|---|---|---|---|---|
| | YR | Count from 1-20 and say which no. is 1 less than a given no. Using quantities objects, subtract two U nos and count back to find the answer. [Expected] Estimate no. of objects; check quantities by counting up to 20. [Exceeding] | Practical or recorded using ICT. Chloe was playing in the maths area. "I need three more" she said as she added some cubes to the circle. She then realise she had more than her friend. "Oh, I have too many". She removed one. "Now we have the same". During a game of skittles outdoors Joseph knocked three numbered skittles down. He was able to calculate his score his head. [EYFS Profile exemplifications, STA] | | Pictures/Objects I have five cakes. I eat two of them. How many do I have left? Mum baked 9 biscuits. I ate 5. How more left? Might be recorded as: 5 - 2 = 3 Might be recorded as: 5 - 2 = 3 | | | | |
| KS1 focus must be language, facts and values | Y1 | Subtract (and add) one-digit and two-digit numbers to 20 (9 + 9, 18 - 9), including zero Read/write/interpret statements involving addition (+), subtraction (-) and equals (=) signs | Practical or recorded using ICT. Pupils use concrete objects and pictorial representations (eg place value counters, Dienes) | | -1 -1 12 13 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 | g on – jumps of 1 1 + 1 10 	 11 t using bead strings or nu How many | , 10+1-11 | Represent/use number bonds and related subtraction facts within 20. Problems should include terms: put together, add, altogether, total, take away, distance between, more than and less than, so pupils develop concept of +/- and use operations flexibly. Missing number problems (eg 7 = $? - 9$) | Memorise/reason with bonds to 10/20 in several forms (eg 9 + 7 = 16; 16 - 7 = 9; 7 = 16 - 9). Pupils should realise the effect of adding or subtracting zero - establishes +/- as related operations. Pupils combine and increase numbers, counting forwards and backwards. |
| | Υ2 | Y2 TU - U TU - tens TU - TU Recognise/use relationship betw. +/- to check calcs and missing number problems. Practical/visual in 95 - 60 = 35 Y2 [Show subtraction of two numbers cannot be done in any order.] Pupils use concrete objects and pictorial representations and mental strategies (eg place value counters, Dienes) 95 - 60 = 35 | | | ges Taking away (no number line) 2 steps (partition into TU) 74 - 23 = 51 (no decomposition into TU) | | 4 3 1 | Recall and use subtraction facts to 20 fluently. Derive and use related facts up to 100. Solve problems by applying increasing knowledge of mental methods. | Pupils extend understanding of the language of subtraction to include difference . Practise subtraction to 20 to derive facts such as using $3 +$ 7 = 10, 10 - 7 = 3 and $7 = 10 -3$ to calculate $30 + 70 = 100$, 100 - 70 = 30 and $70 = 100 -30$. Check calculations, including by adding to check subtraction. |
| | Y3 | Use formal written methods of columnar subtraction TU - TU HTU - TU HTU - HTU | Practical/visual images 95 - 60 = 35 moving HTU - HTU HTU - HTU | - TU and 3 steps (partition 326 - 178 = 148 326 - 178 = 148 326 - 100 = 226 226 - 70 = 156 156 - 8 = 148 | | decomposition) 8 7 4 - 5 2 3 | ecomposition Estimate 12 - 457 = 475 answers and 8 12 1 9 3 4 5 4 7 | HTU - U HTU - tens HTU – hundreds Use number facts and place value to solve problems. | |
| | Y4 | Use formal written methods of columnar subtraction. HTU - HTU ThHTU - TU ThHTU - HTU ThHTU - THTU | Counting on 1324 - 968 = 356 + 324 + 32 968 1000 1324 | Decomposition Practical/vis $13^{\circ}7^{\circ}4$ -968 406 1374 - 968 = 406 | sual images | Solve simple measure a money problems involvi fractions and decimals Solve subtraction two problems in contexts, which operations and to use and why. | ing to 2dp. -step , deciding Estimate. compare and | Pupils continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid fluency. | Pupils build on their understanding of place value and decimal notation to record metric measures, including money. |
| | Y5 | Subtract whole numbers >4 digits, including using formal methods (columnar subtraction). Decimals up to 2dp (eg 72.5 - 45.7) | Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve multi-step problems in contexts, deciding which operations/methods to use and why. Solve arconductor of the second solve problems involving measure [eg length, mass, volume, money] using dec notation including scaling, [Measurement] | ime. | Taking away (no number line) Partition 72.5 - 45.7 72.5 - 40 = 32.5 32.5 - 5 = 27.5 27.5 - 0.7 = 26.8 | 2.6 | decimals, including a mix of 8.8 whole numbers and 4.5 decimals, decimals with 4.6 different numbers of 7 decimal places, and complements of 1. | Subtract numbers mentally with increasingly large numbers (eg 12462 - 2300 = 10162). Pupils mentally subtract tenths, and one-digit whole numbers and tenths. | They extend their knowledge of fractions to thousandths and connect to decimals and measures. Pupils should go beyond the measurement and money models of decimals (eg by solving puzzles. |
| | Y6 | Solve multi-step problems in contexts, deciding which operations/methods to use and why. Decimals up to 3dp (Context: Measures) | Use knowledge of the order of operations to carry out calculations involving subtraction. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. | rounded to specified degrees of a [Fractions] Solve problems involving the calc conversion of units of measure, us | e problems involving the calculation and rersion of units of measure, using mal notation to 3dp where appropriate. | | | Perform mental calcs, incl. with mixed operations and large numbers. Using the no. line, pupils subtract positive/negative integers for measures such as temperature. | Pupils develop skills of rounding/estimating to predict/check order of magnitude of ans to decimal calcs. Includes rounding ans to a degree of accuracy & checking reasonableness. |

MULTIPLICATION

| S | STATUTORY REQUIREMENTS | | | MULTIPLIC | ATION | Rapid | Recall/Mental Calculations N | on-statutory guidance | |
|---------------------|------------------------|--|---|--|--|---|--|---|--|
| values | YR | Children solve problems, including doubling, halving and sharing. [Expected] Solve practical problems that involve combining groups of 2/5/10. [Exceeding] | Practical/ recorded using ICT (eg digital photos / pictures on IWB) How many 10p coins are here? How much money is that? This domino is a double 4. How many spots does it have? | Pictures/Objects How many socks in three | ee pairs? | Symbolic 3 pairs, 2 socks in | each pair: | | |
| language, facts and | Y1 | Solve one-step problems using concrete objects, pictorial representations and arrays (with the support of the teacher) | Practical/recorded using ICT Pictures/Symbolic There are five cakes in each bag. How many cakes are there in three bags? | | sual (eg modelled using bead strings 3 (5 groups of 3) or 3 x 5 (3 groups 0 5 10 | s of 5) | Arrays 5 x 2 or 2 x 5 Commutativity | | Doubling numbers/quantities Count on/back in 2s, 5s and 10s |
| KS1 focus must be | Y2 | Calculate statements for multiplication within the multiplication tables and write them using the multiplication and equals signs. [Show multiplication of two numbers can be done in any order.] | There are four apples in each box. How many apples in six boxes did did did did did did did did did did | | Repeated addition 5 x 3 or 3 x 5 3 + 3 + 3 + 3 + 5 + 5 | | Arrays 6 x 4 or 4 x 6 Commutativity | Recall and use multiplication facts for the 2, 5 and 10 multiplication tables, (including recognising odd and even numbers). Use commutativity/inverse relations to develop multiplicative reasoning (eg $4 \times 5 = 20$ and $20 \div 5 = 4$). | Pupils practise to become fluent in the 2/5/10 multiplication tables and connect them to each other. They connect the 10x table to place value, and the 5x table to divisions on the clock face. They begin to use other multiplication tables and recall facts, including using related division facts to perform written and mental calculations. |
| | Y3 | Write/calculate statements using the multiplication tables that they know (progressing to formal written methods). TU x U (multiplier is 2/3/4/5/8/10) | Repeated additionArrays 5×3 or 3×5 6×4 or 4×6 $3+3+3+3+3$ Commutativity $5+5+5$ $\bullet \bullet \bullet \bullet \bullet \bullet$ | 36 x 4 = 144 X 30 6 4 120 24 | $36 \times 4 = 144$ $30 \times 4 = 120$ $6 \times 4 = 24$ | $36 \times 4 = 144$ 36 $\times 4$ (6×4) 24 (30×4) 120 144 | Pupils develop reliable written methods for multiplication, starting with calculations of TU by U (progressing to formal written methods of short multiplication). | Recall and use multiplication facts for the 3, 4 and 8 multiplication tables. | Through doubling, they connect the 2/4/8 multiplication tables. Pupils develop efficient mental methods, using commutativity (eg 4 × 12 × 5 = 4 × 5 × 12 = 20 × 12 = 240) and multiplication and division facts (eg using 3 × 2 = 6, 6 + 3 = 2 & 2 = 6 + 3) to derive related facts (30 × 2 = 60, 60 + 3 = 20 & 20 = 60 + 3). |
| | ¥4 | Use formal written layout: TU x U HTU x U Convert between different units of measure [eg km to m; hr to mi] | $\begin{array}{c} 43 \times 6 = 258 \\ (estimate: 40 \times 6 = 240) \\ 40 \times 6 = 240 \\ 3 \times 6 = 18 \end{array} \qquad \begin{array}{c} 43 \times 6 \\ \\ \underline{\times 6} \\ 18 \\ \underline{-240} \\ (40 \times 6) \\ 258 \end{array}$ | $24 \times 6 = 144$ $2 4$ $\times 6$ $1 4 4$ 2 | 342 x 7 = 2394 x 300 40 2 7 2100 280 14 | 237 × 4 (estimate: 250 × 4 = 237 × $\frac{4}{28}$ 120 $\frac{800}{948}$ | $342 \times 7 = 2394$ $3 4 2$ $\times 7$ $2 3 9 4$ $2 1$ | Recall multiplication facts to 12 × 12. Use place value, known & derived facts to multiply mentally, including x by 0/1; x 3 numbers. Recognise/use factor pairs and commutativity in mental calculations. <i>Pupils use multiplication to convert</i> from larger to smaller units. | Practise mental methods and extend this to HTU numbers to derive facts, for example $200 \times 3 = 600$ into $600 + 3$ = 200. Write statements about equality of expressions [eg 39 × 7 = 30 × 7 + 9 × 7 and (2 × 3) × 4 = 2 × (3 × 4)]. Combine knowledge of facts and arithmetic rules to solve mental/written calculations (eg 2 × 6 × 5 = 10 × 6 = 60). |
| | Y5 | Use a formal written method (including long x for TU nos) TU x TU HTU x U / HTU x TU ThHTU x U Convert between units of measure (eg km/m; m/cm; cm/mm; kg/g; litre and ml) | 80 | 30 x 30 = (estimate 300 2 7 | $\begin{array}{c} 00 \times 6 = 18000 \\ \hline 4 & 1 \\ \hline 6 \\ \hline 4 & 6 \end{array} \qquad (estimate 25 \times 15 \\ 375) \\ \hline 2 & 4 \\ \hline \end{array}$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | multiplication by a fraction to using fractions as operators (fractions of), and to division. This relates to scaling by simple fractions, including those > 1. | Identify multiples/factors, including finding all factor pairs of a number, & common factors of two numbers. Know/use vocabulary of prime numbers, prime factors and composite (non-prime) nos. Establish if a number up to 100 is prime; recall prime numbers to 19. x nos mentally using known facts. Multiply whole numbers and those involving decimals by 10/100/1000. | Pupils apply all the x tables frequently, commit them to memory and use them to make larger calculations. They understand the terms factor, multiple/prime, square/cube numbers & use to construct equiv. statements (eg 4 x 35 = 2 x 2 x 35; 3 x 270 = 3 x 3 x 9 x 10 = 9 ² x 10). |
| | Y6 | Multi-digit numbers (up to 4 digits) × TU whole number using the formal method of Iong multiplication. Multiply one-digit numbers with up to two decimal places by whole numbers | $124 \times 26 \qquad 1 \qquad 2 \qquad 3224 \\ x \qquad 2 \qquad 6 \\ \hline 7 \qquad 4 \qquad 4 \\ \underline{2 4 8 0} \\ \underline{3 2 2 4} \\ 1 \qquad 1 \\ \hline 1 \qquad 1 \\ 1 \qquad 1 \\ \hline 1 \qquad 1 \\ 1 \qquad 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$ | | 4.7 x 8 = 37.6 (estimate 5 x 8 = 40) [Or 47 x solution $ \frac{4.7}{\times \frac{-8}{5}} $ | 8, then divide the by 10.] under to finc length 144cr x num nos (s | a variety of images to support rstanding of x with fractions. Use rstanding of relationship between ractions and + to work backwards by jantity that represents a unit fraction if the whole quantity (eg if ½ of a n is 36cm,whole length $36 \times 4 =$ m). whers with up to 2dp by U/TU whole starting with simplest cases eg 0.4 × 8, and in practical contexts). | Perform mental calculations, including with mixed operations/large numbers. Identify common factors/multiples and prime numbers. Use knowledge of order of operations to carry out calculations. Use estimation to check answers to calculations and determine an appropriate degree of accuracy. Identify value of each digit to 3dp and x nos by 10/100/1000 (ans to 3dp) | Undertake mental calcs with increasingly large numbers and more complex calculations. Continue to use all x tables to calculate statements in order to maintain their fluency. Explore the order of operations using brackets. Common factors can be related to finding equivalent fractions. |

| | атати | ORY EXPECTATIONS | | DIVISION | Rapi | d Recall/Mental Calculations | Non-statutory guidance |
|--|---|--|--|--|--|---|---|
| | YR | Children solve problems, including doubling, halving and sharing. [Expected] They solve practical problems that involve sharing into equal groups. [Exceeding] | Practical / recorded using ICT (eg digital photos/pictures on IWB) Pictures/Objects 6 cakes shared be 6 cakes put into gr | | Symbolic 6 cakes shared between 2 Share the 10 grapes between 2 people. | | |
| focus must be language, facts and values | Y1 | Solve one-step problems using concrete objects, pictorial representations and arrays (with the support of the teacher) | them get off. between 3 be | pples in each bowl if I share 12 apples | Visual (modelled using bead strings) 15 + 5 = 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Recognise/find/name ½ as one of two equal parts of an object, shape or quantity. Recognise/find/name ¼ as one of four equal parts of an object, shape or quantity. | Find simple fractions of objects, numbers and quantities Count on/back in 2s, 5s and 10s |
| KS1 focus | within the multiplication tables and write them using the division and equals signs. Y2 [Show division of two numbers cannot be done in any order.] Find ¼, ¼, ¾, ¾ of a length/objects/quantity. | | Pictures/Symbolic Four eggs fit in a box. How many boxes would you need to pack 20 eggs? | Pupils use a variety of language to describe division. | Arrays Find $\frac{1}{2}$ of 24 | Recall & use division facts for the 2, 5 and 10 multiplication tables, Recognise/find/name/write fractions $\frac{1}{2}$, $\frac{1}{2}$, $\frac{3}{2}$ of a (length, shape), set of objects or quantity. Write simple fractions eg $\frac{1}{2}$ of 6 = 3 and recognise equivalence of two quarters and one half. Use commutativity/inverse relations to develop multiplicative reasoning (eg 4 × 5 = 20 and 20 + 5 = 4). | Begin to use other multiplication tables/recall facts, including related division facts to perform written/mental calculations. Work with materials/contexts where division relate to grouping/sharing quantities. They begin to relate these to fractions/measures (eg 40 + 2 = 20, 20 is a half of 40). They connect unit fractions to equal sharing and grouping, to numbers and to measures |
| | Y3 | Write/calculate statements using the tables that they know (progressing to formal written methods). TU + U (divisor is 2/3/4/5/8/10) with remainders expressed as 'r'. | Pictures/Symbolic 23 + 4 = 5 r 3 Grouping or sharing | Repeated subtractionArrays $25 \div 5$ Find $\frac{1}{4}$ of 24 $24 \div 4 = 6$ $25 - 5 - 5 - 5 - 5$ $\bigcirc \bigcirc $ | short division). | Recall and use division facts for the 3, 4 and 8 multiplication tables. | Pupils develop efficient mental methods, using commutativity (eg 4 × 12 × 5 = 4 × 5 × 12 = 20 × 12 = 240) and multiplication and division facts (eg using 3 × 2 = 6, 6 + 3 = 2 & 2 = 6 + 3) to derive related facts (30 × 2 = 60, 60 + 3 = 20 & 20 = 60 + 3). |
| | Y4 | Pupils practise to become fluent in the formal written method of short division with exact answers or remainders [NS] TU + U; HTU + U | 98 ÷ 7 = 14 1 4 7 9 8 | 252 + 7 = 36 7 2 | <u>36</u> 52 | Recall division facts to 12 × 12. Use place value, known/derived facts to + mentally, including + by 1. Find effect of dividing U/TU by 10/100, identifying the value of the digits in the answer as units/tenths/hundredths. | Practise mental methods and extend this to HTU numbers to derive facts, for example 200 \times 3 = 600 into 600 \div 3 = 200. Relates decimal notation to division of whole number by 10 and later 100. |
| | Υ5 | Use the formal written method of short division (interpret remainders appropriately for the context). HTU + U THHTU + U Convert between units of measure (eg km/m; m/cm; cm/mm; kg/g; litre and ml) | 432 + 5 = 86 r2 (estimate: 400 + 5 = 80) 8 6 7 8 6 7 5 4 3 2 | $8520 \div 6 = 1420$ $6 \boxed{\frac{1420}{8520}}$ | Pupils connect x by a fraction to using fractions as operators (fractions of), and to \div . This relates to scaling by simple fractions, incl. those > 1. Find fractions of numbers and quantities, writing remainders as a fraction. | Identify multiples/factors, including finding all factor pairs of a number, & common factors of two numbers. Know/use vocabulary of prime numbers, prime factors and composite (non- prime) nos. Establish if a number up to 100 is prime; recall prime numbers to 19. + nos mentally using known facts. Divide whole numbers and those involving decimals by 10/100/1000. | Pupils apply all the + facts frequently, commit them to memory and use them to make larger calculations. They understand the terms factor, multipleprime, square/cube numbers & use to construct equivalent statements (eg 120 + 15 = $(30 \times 4) + 15 = 2 \times 4 = 8$) |
| | Y6 | Divide numbers (up to 4 digits) by TU whole number using the formal method of short/long division (interpret as approp. for the context). Use written division methods in cases where the ans has up to 2dp. [Divide numbers up to 2dp by U/TU whole numbers.] | 43.68 + 7 = 6.24 (estimate: 42 + 7 = 6) [Or compute 4368 + 7, then divide the solution by 100.] 6.24 $7 \overline{ 43.168}$ | | 496 + 11 (estimate 500 + 10 = 50) 4 5 r 1 1 1 4 9 6 Answer: 45 $\frac{1}{11}$ | Perform mental calculations, including with mixed operations/large numbers. Identify common factors/multiples and prime numbers. Use knowledge of order of operations to carry out calculations. Use estimation to check answers to calculations and determine an appropriate degree of accuracy. Identify value of each digit to 3dp and ÷ nos by 10/100/1000 (ans to 3dp) | Undertake mental calcs with increasingly large numbers and more complex calculations. Continue to use all table facts to calculate statements in order to maintain their fluency. Explore the order of operations using brackets. Common factors can be related to finding equivalent fractions. |