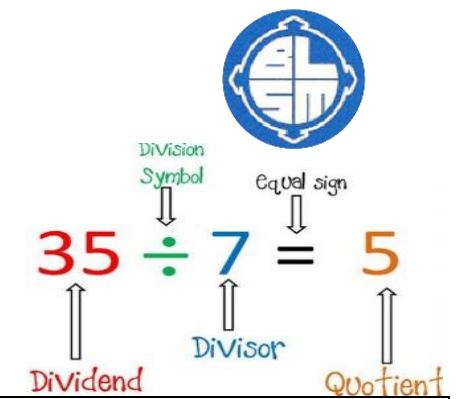




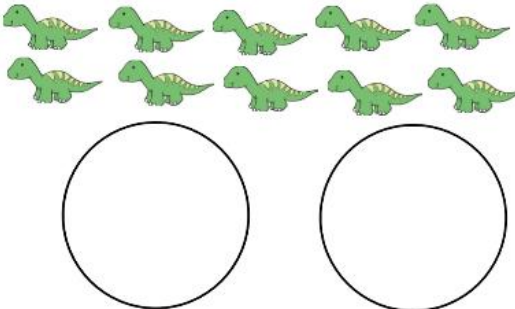
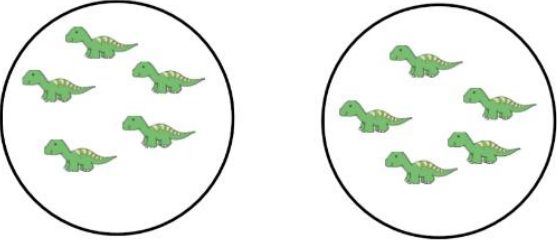


St. Mary's CE Primary School Calculation Policy - Division

Foundation Stage

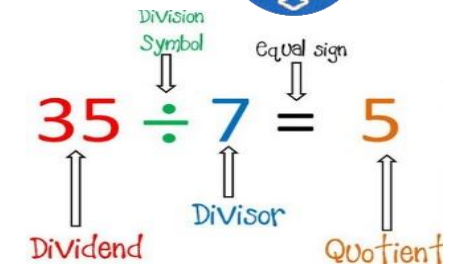
Key Vocabulary: sharing, halving, number patterns



| Objective & Strategy | Concrete | Pictorial | Abstract |
|--------------------------------|--|--|--|
| To begin to divide by sharing. | <p>Children will use a range of resources to share concrete resources to begin to demonstrate understanding.</p> <p>Children will start with an even number and will need to share this out equally in a given group. e.g. $10 \div 2 = 5$</p>   | <p>Children will understand equal groups and share items out in play and problem solving. They will count in 2s and 10s and later in 5s.</p> <p>Step 1: Count how many you have. Step 2: Share them equally so each group has the same amount. Step 3: Count how many are in each group.</p>   | <p>Children will begin to experiment with writing division number sentences using the division symbol.</p> <p>$10 \div 2 = 5$</p> |


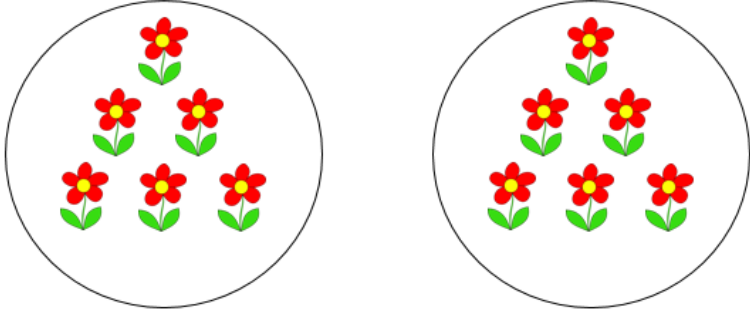
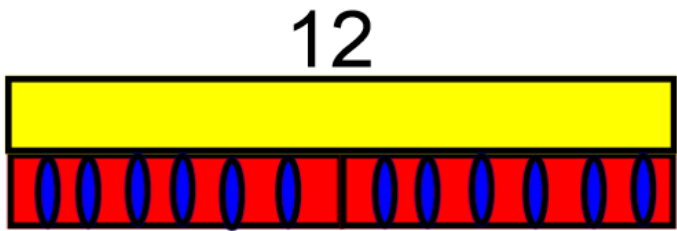


St. Mary's CE Primary School Calculation Policy - Division



Year 1

Key Vocabulary: division, dividing, grouping, sharing, doubling, halving, array, number pattern, equal grouping, equal sharing

| Objective & Strategy | Concrete | Pictorial | Abstract |
|---|--|---|--|
| <p>To divide by sharing</p> <p>To half a number up to 20.</p> | <p>Children will use concrete resources, including uni-fix cubes to share into equal groups. Children will also be able to half a number up to 20 by sharing into equal groups.</p>  <p>Stem Sentence: I know there are <u>2</u> groups so I can share <u>12</u> counters which will equal <u>6</u> in each group.</p> | <p>Children will draw jottings and have pictorial representations to demonstrate knowledge of sharing into equal groups.</p> <p>$12 \div 2 = 6$</p>  <p>I know there are 2 groups and in each group there are 6 flowers.</p> <p>$12 \div 2 = 6$</p>  | <p>Children will be introduced to word problems to solve division problems.</p> <p>6 sweets are shared between 2 people. How many do they have each?</p> <p>$12 \div 2 = 6$</p> <p>Stem Sentence: I know <u>12</u> divided equally between <u>2</u> groups' equals <u>6</u>.</p> |



St. Mary's CE Primary School Calculation Policy - Division

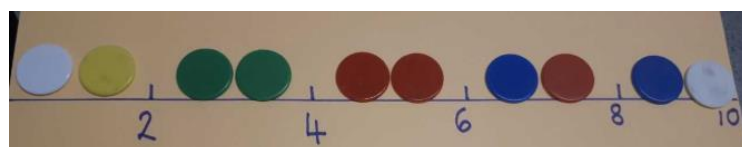
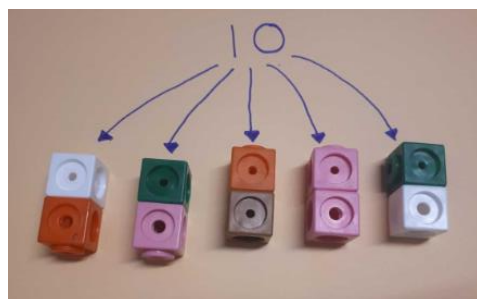


To divide by grouping.

Children will begin to solve division problems, which require sorting objects and quantities into 2s, 4s, 5s and 10s.

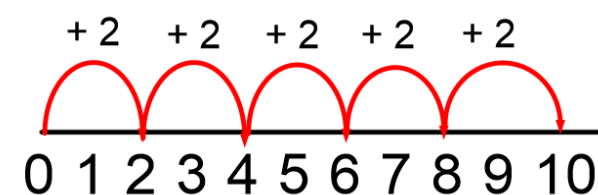
Children will use concrete resources such as cubes, counters or objects to aid understanding.

$$10 \div 5 = 2$$



Children will use number lines to show grouping.

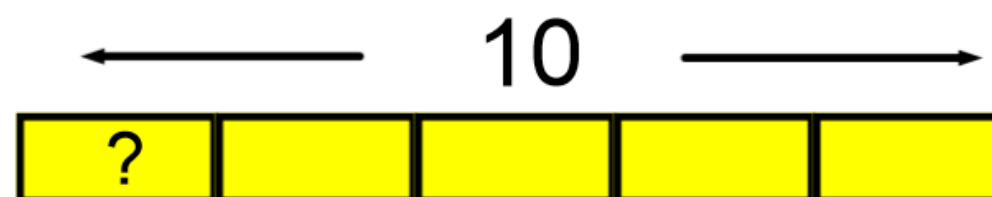
$$10 \div 2 = 5$$



Children will also experiment dividing by grouping using the bar model.

The children will be given a number or picture representatives. This will represent the whole. They then need to split the whole into the number of groups they are dividing by and work out how many would be in each group.

e.g. $10 \div 5 = 2$



There are 10 flower bulbs. Plant 2 in each pot. How many pots are there?

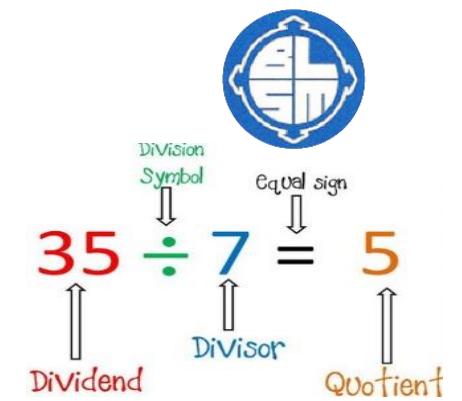
$$10 \div 2 = 5$$

There are 10 flower bulbs. Plant 5 in each pot. How many pots are there?

$$10 \div 5 = 2$$

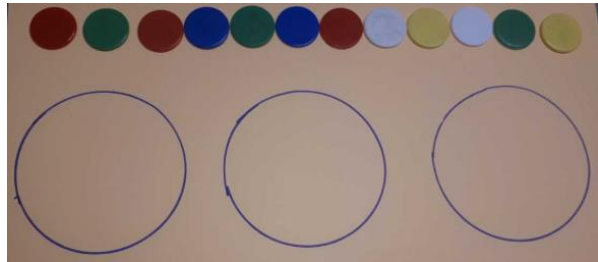
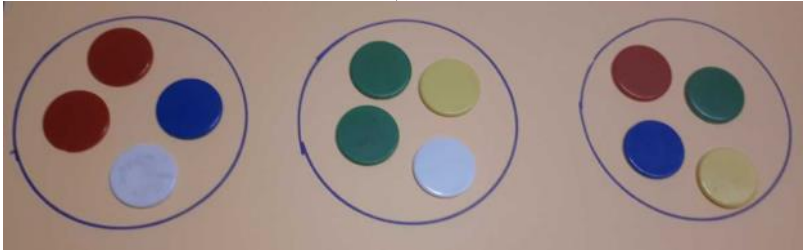
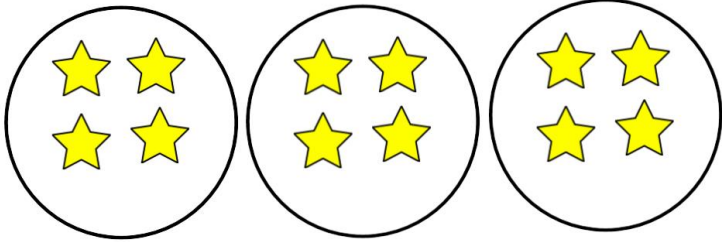
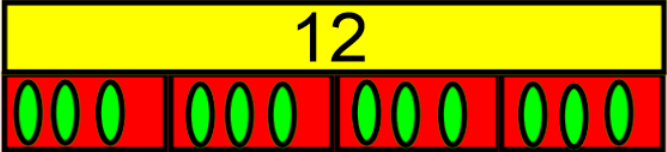


St. Mary's CE Primary School Calculation Policy - Division



Year 2

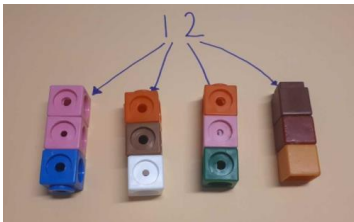

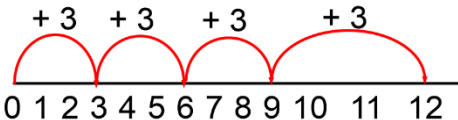
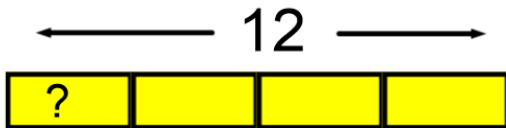

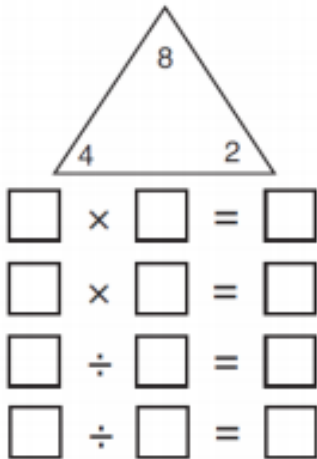
Key Vocabulary: groups of, times, repeated subtraction, division, dividing, divide, divided by, divided into left, left over, grouping, sharing, share, share, equally, two each, three each ... ten each group in pairs, threes ... tens equal groups of, halving, array row, column, number patterns, division fact

| Objective & Strategy | Concrete | Pictorial | Abstract |
|-----------------------|--|---|---|
| To divide by sharing. | <p>Children will use a range of concrete resources, including cubes to share objects and quantities into equal groups.</p> <p>I have 12 cubes, can you share them equally into 3 groups?</p>   | <p>Children will use pictures and shapes to share quantities.</p> <p>$12 \div 3 = 4$</p>  <p>Children will also be able to use the bar model to show and support their understanding. e.g. $12 \div 4 = 3$</p>  | <p>Children will be writing division number sentence using the divide symbol.</p> <p>$12 \div 3 = 4$</p> <p>$12 \div 4 = 3$</p> |



St. Mary's CE Primary School Calculation Policy - Division



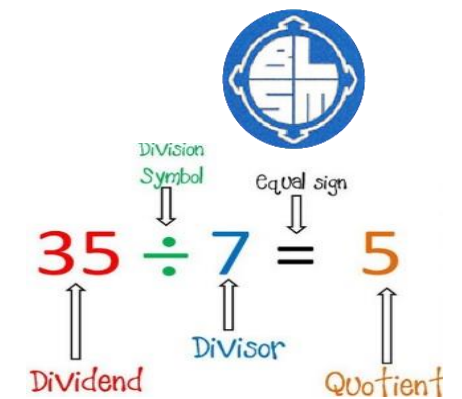
| | | | |
|---|---|---|---|
| <p>To divide by grouping (repeated addition)</p> | <p>Children will begin to solve division problems, which require sorting objects and quantities into 2s, 4s, 5s and 10s.</p> <p>Children will use concrete resources such as cubes, counters or objects to aid understanding.</p>   | <p>Children will use number lines to show grouping</p>  <p>Children will dividing by grouping using the bar model.</p> <p>The children will be given a number or picture representatives. This will represent the whole. They then need to split the whole into the number of groups they are dividing by and work out how many would be in each.</p>  | <p>There are 12 flower bulbs. Plant 3 in each pot. How many pots are there?</p> $12 \div 3 = 4$ <p>There are 12 flower bulbs. Plant 4 in each pot. How many pots are there?</p> $12 \div 4 = 3$ |
| <p>To use related multiplication and division facts using the inverse for the 2, 3, 5 and 10 times table.</p> | <p>Children will use concrete resources, including cubes to represent arrays. These will then form part of the learning process to explain number related facts and begin to write these in number form.</p> <p>$2 \times 4 = 8$ $4 \times 2 = 8$ $8 \div 2 = 4$ $8 \div 4 = 2$</p>  | <p>Children will use pictorial representations to solve missing number facts that demonstrate related facts.</p>  | <p>Children will show all 8 related number sentences to demonstrate related facts.</p> $\begin{aligned} 2 \times 4 &= 8 \\ 4 \times 2 &= 8 \\ 8 \div 2 &= 4 \\ 8 \div 4 &= 2 \\ 8 &= 2 \times 4 \\ 8 &= 4 \times 2 \\ 2 &= 8 \div 4 \\ 4 &= 8 \div 2 \end{aligned}$ |

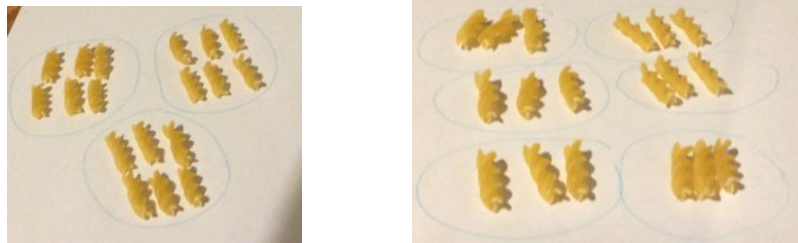
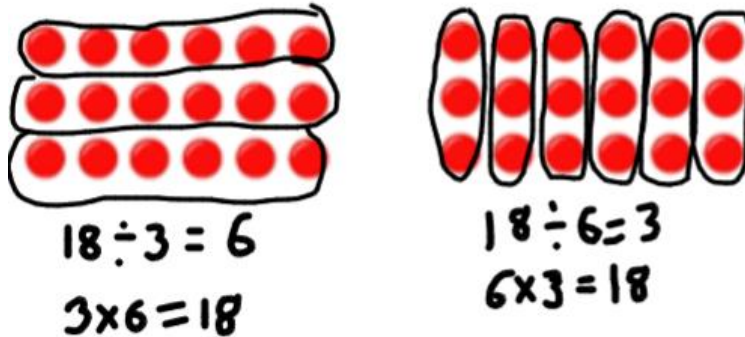


St. Mary's CE Primary School Calculation Policy - Division

Year 3

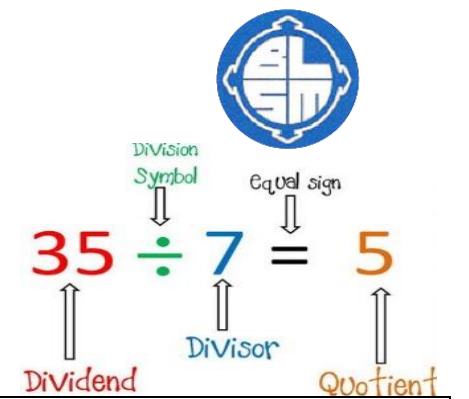
Key Vocabulary: groups of, times, repeated subtraction, division, dividing, divide, divided by, divided into left, left over, remainder grouping sharing, share, share equally one each, two each, three each ... ten each group in pairs, threes ... tens equal groups of, halving, array row, column, number patterns, division fact, dividend, divisor, quotient.



| Objective | Concrete | Pictorial | Abstract |
|---|--|---|--|
| To recall multiplication and division facts for multiplication tables up to 12x 12. | Children continue to deepen their understanding of the link between multiplication and division and use physical objects to find related facts. 3 x 6= 18 18 ÷ 3 = 6 6 x 3 = 18 18 ÷ 6 = 3  | Children represent an array pictorially then find the associated multiplication and division facts by sorting into equal groups.  | Children apply their understanding of inverse relationships to write related multiplication and division statements. 3 x 6 = 18 |



St. Mary's CE Primary School Calculation Policy - Division



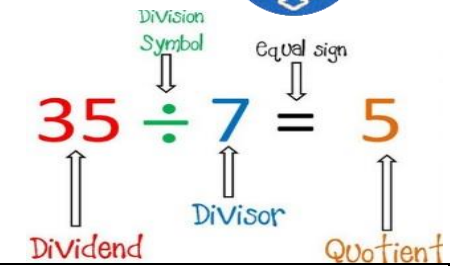


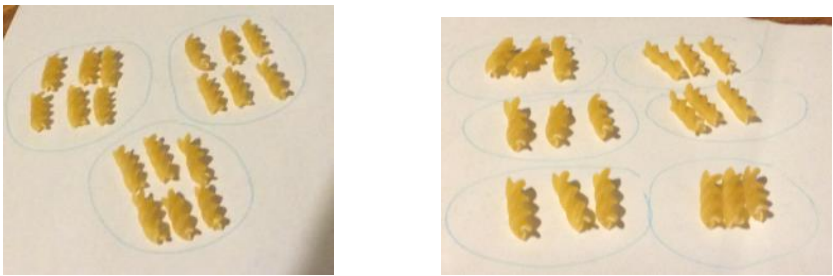
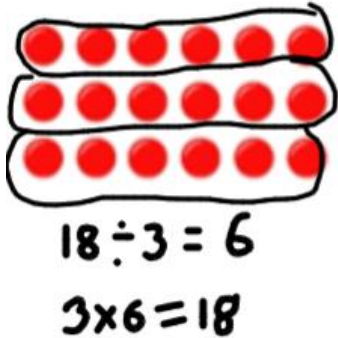
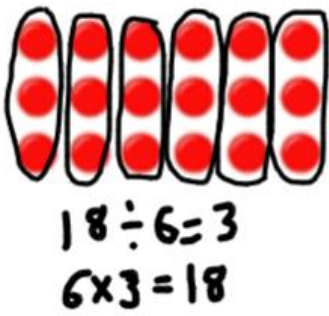
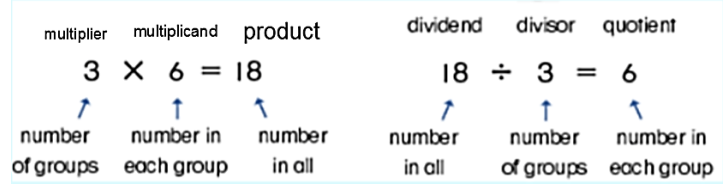
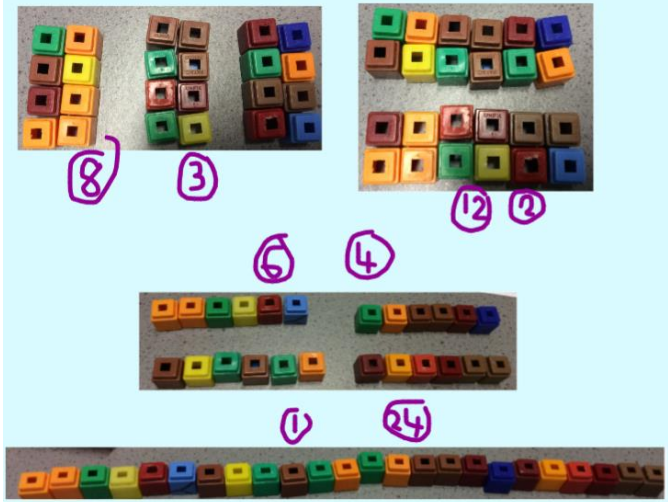
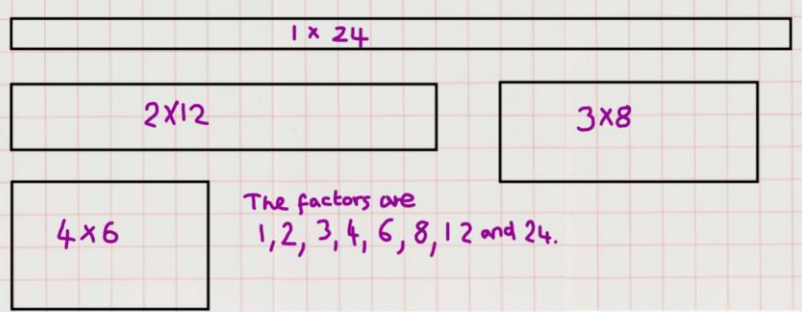
St. Mary's CE Primary School Calculation Policy - Division



Year 4

Key Vocabulary: factors, multiples, groups of, share, share equally, equal groups, division, divide, divided by, divided into, left, left over, remainder, array, dividend, divisor, quotient.



| Objective & Strategy | Concrete | Pictorial | Abstract |
|---|--|---|--|
| To recall multiplication and division facts for multiplication tables up to 12x 12. | <p>Children continue to deepen their understanding of the link between multiplication and division and use physical objects to find related facts.</p> <p>$3 \times 6 = 18$ $18 \div 3 = 6$ $6 \times 3 = 18$ $18 \div 6 = 3$</p>  | <p>Children represent an array pictorially then find the associated multiplication and division facts by sorting into equal groups.</p>   | <p>Children apply their understanding of inverse relationships to write related multiplication and division statements.</p> <p>$3 \times 6 = 18$ $18 = 3 \times 6$ $6 \times 3 = 18$ $18 = 6 \times 3$ $18 \div 3 = 6$ $6 = 18 \div 3$ $18 \div 6 = 3$ $3 = 18 \div 6$</p> <p>They use associated vocabulary correctly and know what each number represents in the calculation.</p>  |
| To recognise and use factor pairs and commutativity in mental calculations. | <p>Children use physical objects to create arrays to support their understanding of factors.</p> <p>Factors of 24</p>  | <p>Children investigate finding all factors of a number by drawing arrays.</p> <p>Factors of 24</p>  | <p>Children use their knowledge of multiplication and division facts to find factors of numbers.</p> <p>Factors of 24</p> <p>$1 \times 24 = 24$ $2 \times 12 = 24$ $3 \times 8 = 24$ $4 \times 6 = 24$</p> |



St. Mary's CE Primary School Calculation Policy - Division



| | | | |
|--|--|--|--|
| <p>To use a formal written method of short division (bus stop method).</p> <p>2/ 3 digit ÷ 1 digit number (exact answers- no remainders)</p> <p>2 or 3 digit divided by a 1 digit number (simple remainders)</p> | <p>Children represent division calculations using concrete materials such as base 10 and place value counters.</p> <p>The children partition the dividend and put inside the bus stop then divide each part by the divisor. The quotient is then recorded on the top line.</p> <div data-bbox="474 714 979 1134"> $46 \div 3$ T O 3 2 3 90 6 90 6 </div> <p>They begin to explore calculations involving simple remainders.</p> <p>$98 \div 3 = 32 \text{ r}2$</p> <div data-bbox="445 1365 949 1722"> $98 \div 3$ T O 3 2 r2 3 90 8 90 8 two remainders </div> | <p>Children represent division calculations using informal jottings and pictorial representations.</p> <div data-bbox="1291 546 1899 1029"> $46 \div 3$ T O 3 2 3 90 6 90 ÷ 3 = 30 6 ÷ 2 = 2 </div> <p>They begin to explore calculations involving simple remainders.</p> <p>$98 \div 3 = 32 \text{ r}2$</p> <div data-bbox="1276 1260 1840 1638"> $98 \div 3$ T O 3 2 r2 3 90 8 90 ÷ 3 = 30 8 ÷ 3 = 2 r2 </div> | <p>In Year 4 children divide numbers up to 3 digits by a 1 digit numbers with exact answers.</p> <p>The children are introduced to the bus stop method as a formal written method.</p> <p>$96 \div 3 = 32$</p> <div data-bbox="2136 735 2404 903"> 32 3 96 </div> <p>Once children have a secure understanding, they begin to understand how to record calculations with simple remainders.</p> <p>$98 \div 3 = 32 \text{ r}2$</p> <div data-bbox="2062 1291 2389 1480"> $32 \text{ r}2$ 3 98 </div> <p>Children apply their knowledge of division to word problems.</p> <p>Arron has 77 seeds. He plants 4 seeds in each plant pot. How many pots does he need?</p> |
|--|--|--|--|

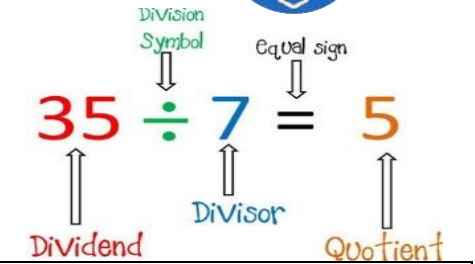



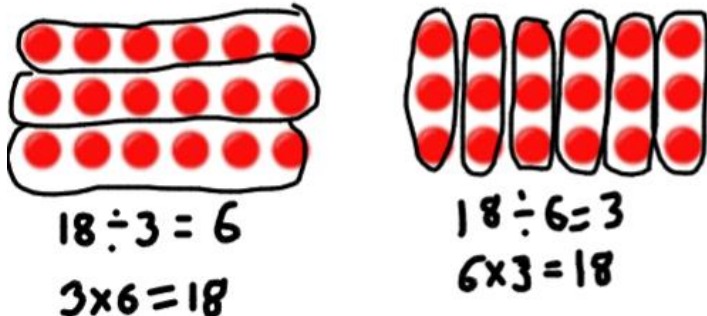
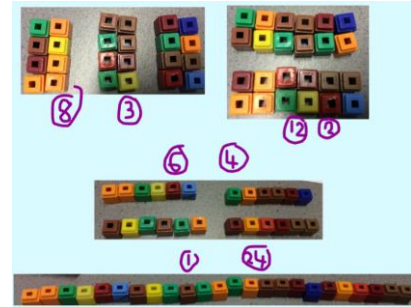
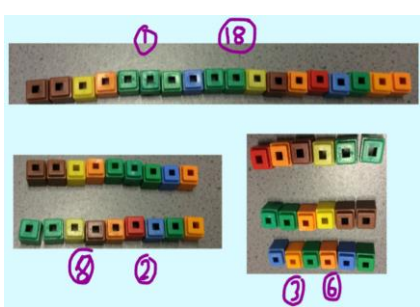
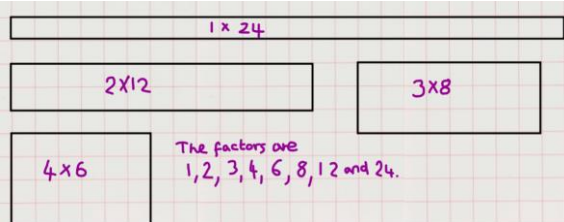
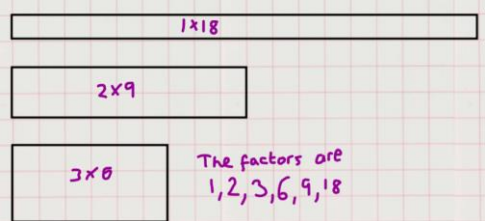
St. Mary's CE Primary School Calculation Policy - Division



Year 5

Key Vocabulary: factors, multiples, groups of, share, share equally, equal groups, division, divide, divided by, divided into, left, left over, remainder, array, prime numbers, composite numbers, dividend, divisor, quotient.



| Objective & Strategy | Concrete | Pictorial | Abstract | | | | | | | | | | | | | | | | | | |
|---|--|--|--|------------------|----------------------|----------|----------|---------|----------|---|---|--------|----|---|---|------------------|--|----------------------|---------------|------------------|----------------------|
| To recall multiplication and division facts for multiplication tables up to 12x 12. | Children continue to deepen their understanding of the link between multiplication and division and use physical objects to find related facts. $3 \times 6 = 18$ $18 \div 3 = 6$ $6 \times 3 = 18$ $18 \div 6 = 3$  | Children represent an array pictorially then find the associated multiplication and division facts by sorting into equal groups.  $18 \div 3 = 6$ $3 \times 6 = 18$ $18 \div 6 = 3$ $6 \times 3 = 18$ | Children apply their understanding of inverse relationships to write related multiplication and division statements. $3 \times 6 = 18$ $18 = 3 \times 6$ $6 \times 3 = 18$ $18 = 6 \times 3$ $18 \div 3 = 6$ $6 = 18 \div 3$ $18 \div 6 = 3$ $3 = 18 \div 6$ They use associated vocabulary correctly and know what each number represents in the calculation. <table><tr><td>multiplier</td><td>multiplier</td><td>product</td><td>dividend</td><td>divisor</td><td>quotient</td></tr><tr><td>3</td><td>×</td><td>6 = 18</td><td>18</td><td>÷</td><td>6</td></tr><tr><td>number of groups</td><td></td><td>number in each group</td><td>number in all</td><td>number of groups</td><td>number in each group</td></tr></table> | multiplier | multiplier | product | dividend | divisor | quotient | 3 | × | 6 = 18 | 18 | ÷ | 6 | number of groups | | number in each group | number in all | number of groups | number in each group |
| | multiplier | multiplier | product | dividend | divisor | quotient | | | | | | | | | | | | | | | |
| 3 | × | 6 = 18 | 18 | ÷ | 6 | | | | | | | | | | | | | | | | |
| number of groups | | number in each group | number in all | number of groups | number in each group | | | | | | | | | | | | | | | | |
| To recognise and use factor pairs of a number and find common factors of two numbers. | Children use physical objects to create arrays to support their understanding of factors. Find the common factors of 18 and 24 <u>Factors of 24</u>  <u>Factors of 18</u>  The common factors are 1, 2, 3 and 6. | Children investigate finding factors by drawing arrays to find all solutions. They then find factors which belong to both numbers. Find the common factors of 18 and 24 <u>Factors of 24</u>  <u>Factors of 18</u>  The common factors are 1, 2, 3 and 6. | Children use multiplication and division facts to find factors of numbers. Find the common factors of 18 and 24 <u>Factors of 18</u> 1×18 2×9 3×6 <u>Factors of 24</u> 1×24 2×12 3×8 4×6 G.C.F. (Greatest Common Factor) is 6. The common factors are 1, 2, 3 and 6. This three-digit number has 2 and 7 as factors. <div>2 9 4</div> Write another three-digit number which has 2 and 7 as factors. <div></div> | | | | | | | | | | | | | | | | | | |



St. Mary's CE Primary School Calculation Policy - Division



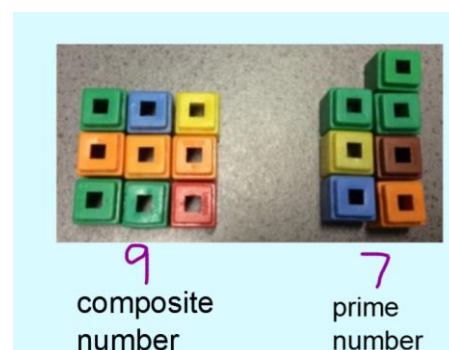
Division Symbol Equal sign

$35 \div 7 = 5$

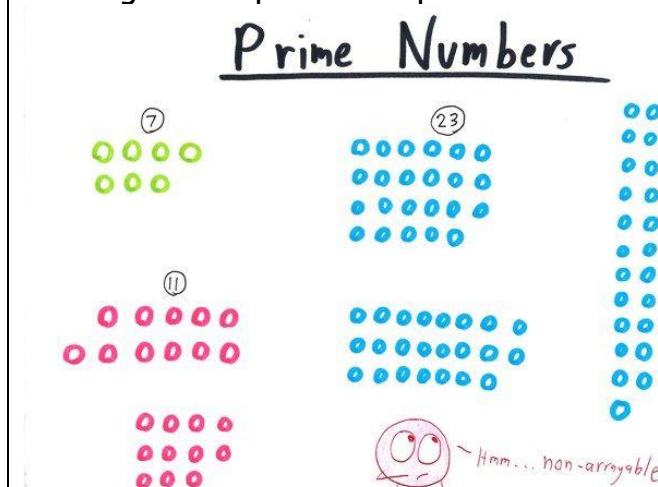
Dividend Divisor Quotient

To establish whether a number up to 100 is prime and recall prime numbers up to 19.

Children find prime numbers and composite (non-prime numbers) by using arrays. They understand that composite numbers form arrays and prime numbers cannot be arranged into arrays.



Children use jottings and pictorial representations to investigate composite and prime numbers.

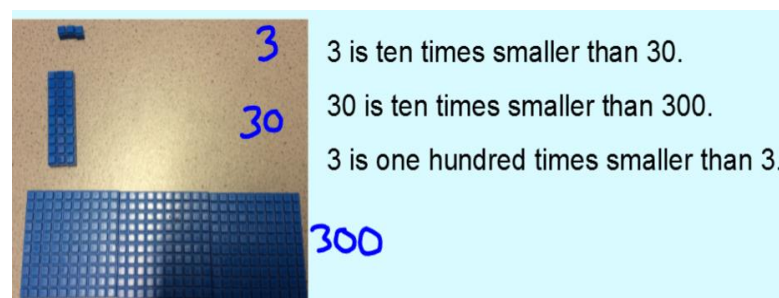


Children use their knowledge of multiples and factors to find the prime numbers up to 100. They eliminate numbers that have factors other than 1. They can recall all prime numbers up to 19.

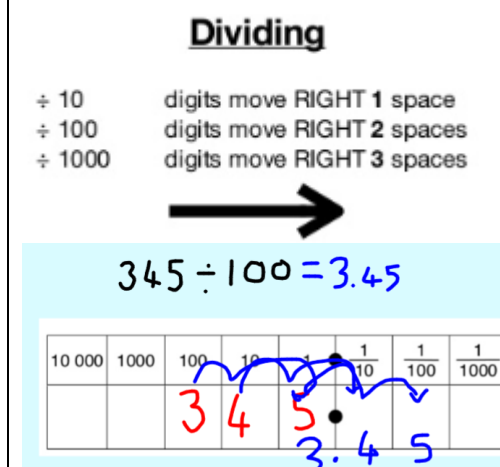
| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

To divide whole numbers and those involving decimals by 10, 100 and 1,000

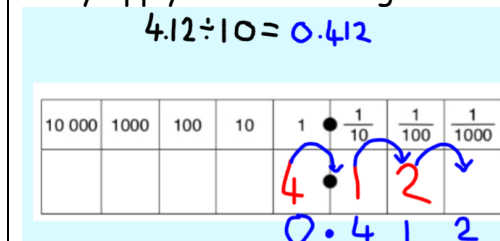
Children use resources to understand what 10, 100 and 1000 times bigger looks like.



Children use place value grids to divide numbers by 10, 100 and 1000s. They understand the movement of the digits on the place value grid.



They apply this knowledge to decimal numbers.



Children apply their knowledge of place value to divide numbers by 10, 100 and 1000, including decimal numbers.

$3450 \div 10 = 345$
 $345 \div 100 = 3.45$
 $2.67 \div 10 = 0.267$
 $12.7 \div 1000 = 0.0127$

They apply their understanding to more complex number puzzles and word problems.

Circle the number that is 10 times greater than nine hundred and seven.

9,700 907 9,007 970 9,070

Write the missing number to make this division correct.

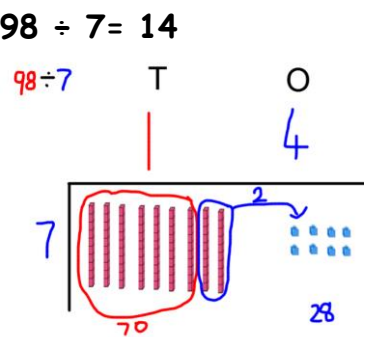
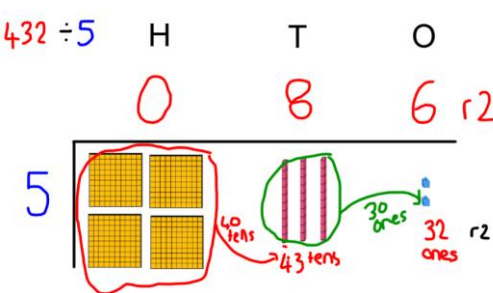
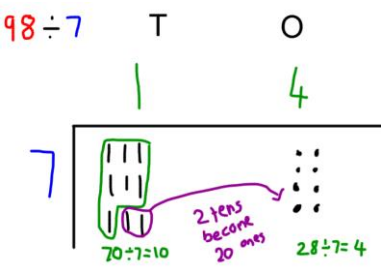
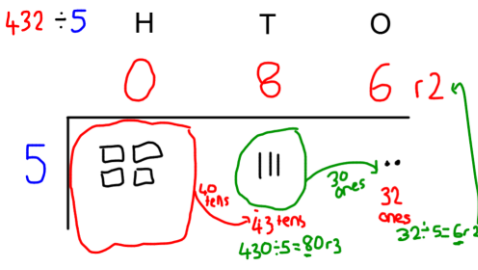
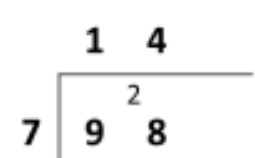
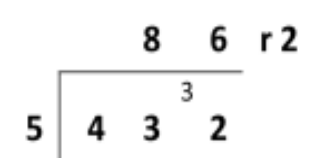

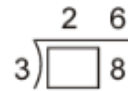
$75 \div \boxed{} = 7.5$

A PS4 is on for sale at a tenth of its original price. It usually costs £450.90. How much is it at the sales?



St. Mary's CE Primary School Calculation Policy - Division



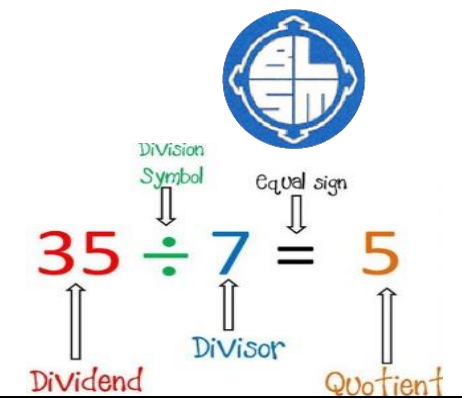
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|---|---|---|--|
| <p>To use a formal written method of short division (bus stop method).</p> <p>Numbers up to 4 digits ÷ 1 digit number (with remainders)</p> | <p>Children represent division calculations using concrete materials such as base 10 and place value counters.</p> <p>The children partition the dividend and put inside the bus stop then divide each part by the divisor. The quotient is then recorded on the top line. The children work with numbers that involve remainders.</p> <p>98 ÷ 7 = 14</p>  <p>432 ÷ 5 = 86 r2</p>  | <p>Children represent division calculations using informal jottings and pictorial representations. The children recognise remainders.</p> <p>98 ÷ 7 = 14</p>  <p>432 ÷ 5 = 86 r2</p>  | <p>In Year 5 children divide numbers up to 4 digits by a 1 digit number, including calculations involving remainders. The children continue to use the bus stop method as a formal method of written calculation.</p> <p>98 ÷ 7 becomes</p>  <p>Answer: 14</p> <p>432 ÷ 5 becomes</p>  <p>Answer: 86 remainder 2</p> <p>Children are expected to interpret non-integar answers by expressing results as fractions ($432 \div 5 = 86 \frac{2}{5}$), decimals ($432 \div 5 = 86.4$) or by rounding ($432 \div 5 = 86.4 \approx 86$ sweets) according to the context.</p> <p>Children apply their knowledge using word problems and number puzzles.</p> <p>A spoonful is 5mL.</p>  <p>Write in the missing digit.</p> <p>The answer does not have a remainder.</p>  <p>How many spoonfuls can you get from this bottle?</p> |
|---|---|---|--|


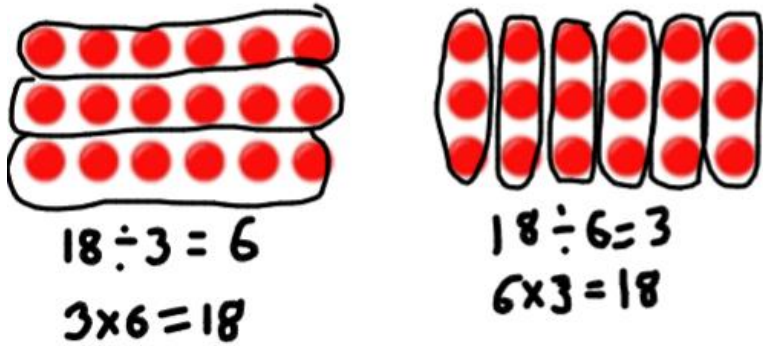
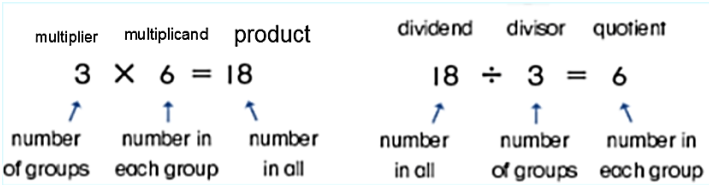
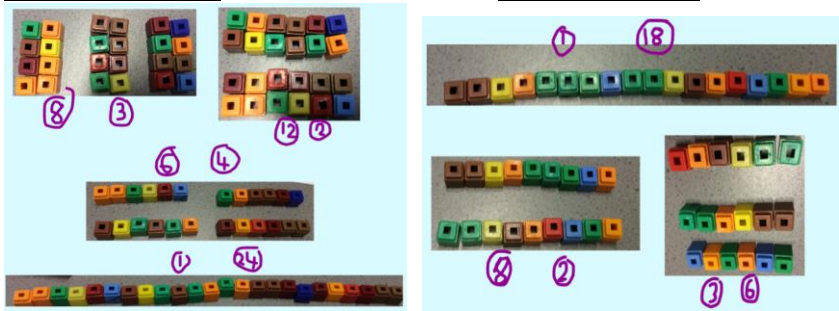
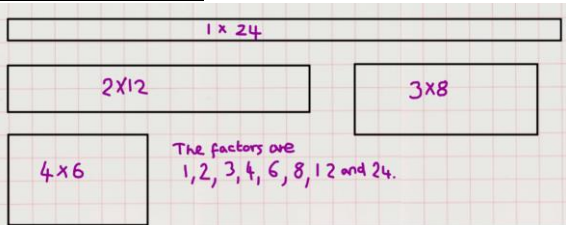
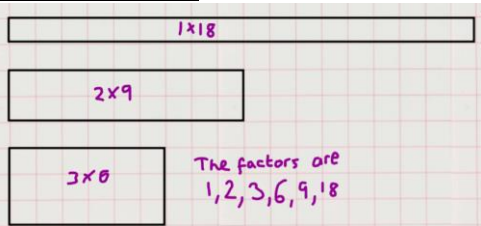
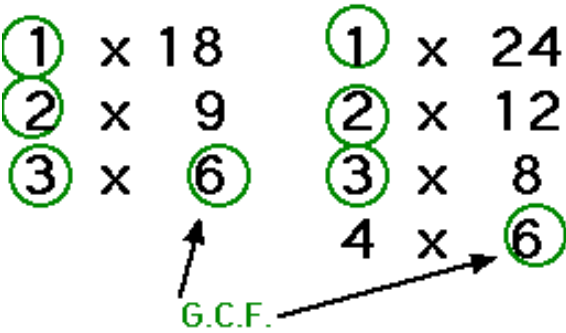


St. Mary's CE Primary School Calculation Policy - Division

Year 6

Key Vocabulary: factors, multiples, groups of, share, share equally, equal groups, division, divide, divided by, divided into, left, left over, remainder, array, dividend, divisor, quotient, prime numbers.



| Objective & Strategy | Concrete | Pictorial | Abstract |
|--|--|---|--|
| To recall multiplication and division facts for multiplication tables up to 12x12. | <p>Children continue to deepen their understanding of the link between multiplication and division and use physical objects to find related facts.</p> <p>$3 \times 6 = 18$ $18 \div 3 = 6$ $6 \times 3 = 18$ $18 \div 6 = 3$</p>  | <p>Children represent an array pictorially then find the associated multiplication and division facts by sorting into equal groups.</p>  | <p>Children apply their understanding of inverse relationships to write related multiplication and division statements.</p> <p>$3 \times 6 = 18$ $18 = 3 \times 6$ $6 \times 3 = 18$ $18 = 6 \times 3$ $18 \div 3 = 6$ $6 = 18 \div 3$ $18 \div 6 = 3$ $3 = 18 \div 6$</p> <p>They use associated vocabulary correctly and know what each number represents in the calculation.</p>  |
| To identify common factors. | <p>Children use physical objects to create arrays to support their understanding of factors.</p> <p>Find the common factors of 18 and 24</p> <p><u>Factors of 24</u> <u>Factors of 18</u></p>  <p>The common factors are 1, 2, 3 and 6.</p> | <p>Children investigate finding all factors of a number by drawing arrays. They then find factors which are the same in both numbers.</p> <p>Find the common factors of 18 and 24</p> <p><u>Factors of 24</u></p>  <p><u>Factors of 18</u></p>  <p>The common factors are 1, 2, 3 and 6.</p> | <p>Children use their knowledge of multiplication and division facts to find factors of numbers.</p> <p>Find the common factors of 18 and 24</p> <p><u>Factors of 18</u> <u>Factors of 24</u></p>  <p>The common factors are 1, 2, 3 and 6.</p> |



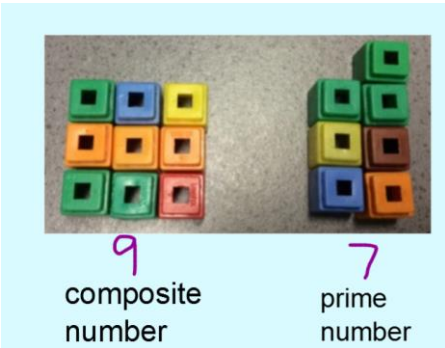
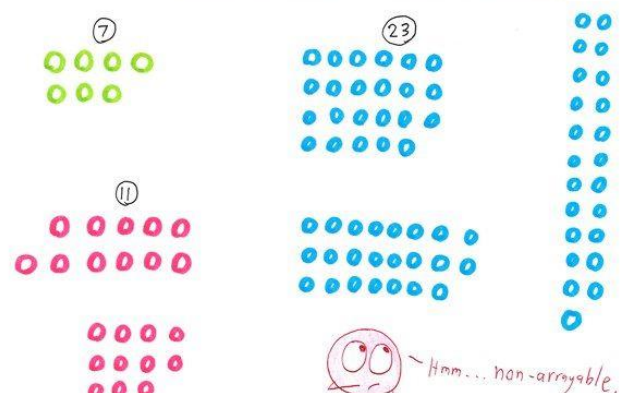
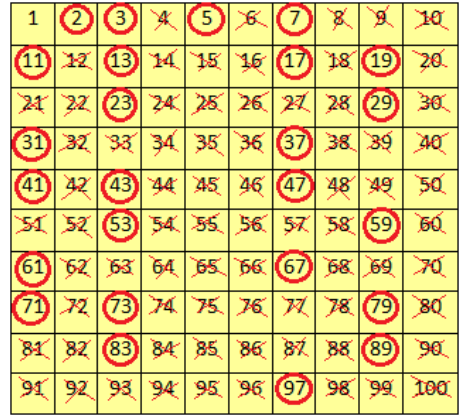
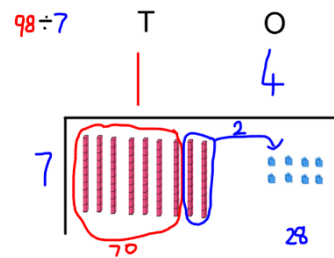
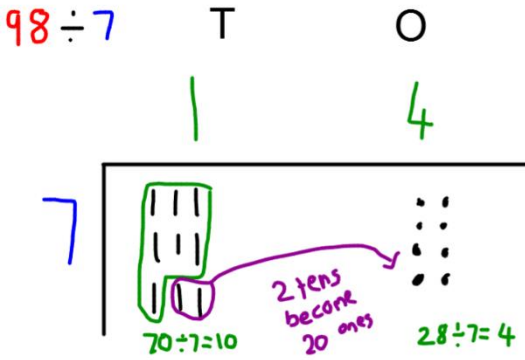
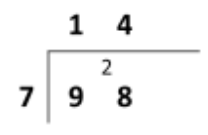
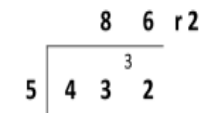
St. Mary's CE Primary School Calculation Policy - Division



Division Symbol Equal sign

$$35 \div 7 = 5$$

Dividend Divisor Quotient

| | | | |
|--|--|--|---|
| <p>To establish whether a number up to 100 is prime and recall prime numbers up to 19.</p> | <p>Children find prime numbers and composite (non-prime numbers) by using arrays. They understand that composite numbers form arrays and prime numbers cannot be arranged into arrays.</p>  <p>9 composite number 7 prime number</p> | <p>Children use jottings and pictorial representations to investigate composite and prime numbers.</p> <p><u>Prime Numbers</u></p>  | <p>Children use their knowledge of multiples and factors to find the prime numbers up to 100. They eliminate numbers that have factors other than 1. They can recall all prime numbers up to 19.</p>  |
| <p>To use a formal written method of short division (bus stop method).</p> <p>Larger numbers ÷ 1 digit number (involving remainders)</p> | <p>Children represent division calculations using concrete materials such as base 10 and place value counters.</p> <p>The children partition the dividend and put inside the bus stop then divide each part by the divisor. The quotient is then recorded on the top line. The children work with numbers that involve remainders.</p> <p>$98 \div 7 = 14$</p>  <p>$432 \div 5 = 86 \text{ r}2$</p> | <p>Children represent division calculations using informal jottings and pictorial representations. The children will recognise remainders.</p> <p>$98 \div 7 = 14$</p>  <p>$432 \div 5 = 86 \text{ r}2$</p> | <p>In Year 6 children divide larger numbers by a 1 digit number with calculations involving remainders. The children continue to use the bus stop method as a formal method of written calculation.</p> <p>$98 \div 7$ becomes</p>  <p>Answer: 14</p> <p>$432 \div 5$ becomes</p>  <p>Answer: 86 remainder 2</p> <p>Children are expected to interpret non-integar answers by expressing results as fractions ($432 \div 5 = 86 \frac{2}{5}$), decimals ($432 \div 5 = 86.4$) or by rounding ($432 \div 5 = 86.4 \approx 86$ sweets) according to the context.</p> <p>Children apply their knowledge using word problems and number puzzles.</p> <p>Sharon buys a pack of 24 cans of lemonade for £6. How much does each can cost?</p> |



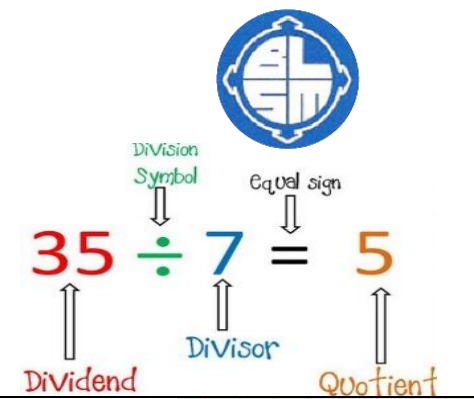
St. Mary's CE Primary School Calculation Policy - Division



| | | | |
|---|--|--|--|
| | <p>$432 \div 5$ H T O</p> <p>0 8 6 r2</p> | <p>$432 \div 5$ H T O</p> <p>0 8 6 r2</p> | <p>Write the missing number.</p> $70 \div \boxed{} = 3.5$ <p>Write the missing number in each calculation.</p> $25 \div \boxed{} = 3 \text{ remainder } 4$ |
| <p>To use a formal written method of long division (bus stop method).</p> <p>Divide larger numbers \div 2 digit numbers (involving remainders)</p> | <p>Children represent division calculations using concrete materials such as base 10 and place value counters.</p> <p>The children partition the dividend and put inside the bus stop then divide each part by the divisor. The quotient is then recorded on the top line.</p> <p>$432 \div 5$ H T O</p> <p>2 8 r12</p> | <p>Children represent division calculations using informal jottings and pictorial representations.</p> <p>$432 \div 5$ H T O</p> <p>0 2 8 r12</p> | <p>The children use the bus stop method as a formal method of written calculation. They use their understanding of the pictorial and concrete stages to understand the value of each number.</p> <p>$432 \div 15 = 28 \text{ r}12$.</p> <p>Step one: Children will put the calculation into the bus stop grid and list their multiples of the divisor.</p> <p>Step 2: Start with the hundreds. The divisor doesn't divide into 4 so combine the 4 hundred with the 3 tens (430). Use the multiples of 15 to calculate the nearest multiple. Two x 15 is 30. Record this underneath, put the 2 on the top then subtract.</p> <p>Step 3: The divisor does divide into 13 so combine the 13 tens with the 2 ones (132). Use the multiples of 15 to calculate the nearest multiple. 8 x 15 is 120. Record this underneath, put the 8 on the top then subtract.</p> |



St. Mary's CE Primary School Calculation Policy - Division



| | | | |
|--|--|--|---|
| | | | <p>Step 4: The number left is your remainder, record this with your answer $432 \div 15 = 28 \text{ r}12$.</p> <div><div><div>028</div><div>15</div><div>432</div><div>30</div><div>132</div><div>120</div><div>12</div></div><div><div>r12</div><div>15</div><div>30</div><div>45</div><div>60</div><div>75</div><div>90</div><div>105</div><div>120</div><div>135</div><div>150</div><div>165</div></div></div> |
|--|--|--|---|