**Cortonwood Infant and Nursery School**



Mathematics method progression for Early Years and Key Stage One

Dec 2022

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| --- | --- | --- | --- |
| Addition | | | |
| Adding single digit numbers that do not cross a ten | | | |
| 5+3=8 | 5+3= 8 | 5+3= 8 | 5+3=8 |
| Adding single digit numbers that cross a ten | | | |
| 7+6= 13 | 7+6= 13 | 7+6= 13 | 7+6= 13 |
| Adding a single digit number to a 2-digit number that do not cross a ten | | | |
| 22+ 4 = 26 | 22+4=26 | 22+4= 26 | 22+4=26 |
| Adding a single digit number to a 2-digit number that does cross a ten | | | |
| 27+5=32 | 27+5= 32 | 27+5= 32 | 27+5=32 |
| Adding two 2-digit numbers that do not cross a ten | | | |
| 34+23 = 57 | 34+23=57      3 tens add 2 tens is 5 tens  4 ones plus 3 ones is 7 ones | | |
| Adding two 2-digit numbers that do cross a ten | | | |
| 58+35=93 | 58+35= 93 | 58+35=93 | 58+35= 93 |

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| Subtraction | | | | |
| subtracting single digit numbers that do not cross a ten | | | | |
| 5-3= 2 | 5-3= 2 | 5-3=2 | | |
| subtracting a single digit number from a 2-digit number that do not cross a ten | | | | |
| 26-3= 23 | 26-3=23 | 26-3= 23 | | 26-3=23 |
| Subtracting a single digit number from a 2-digit number that does cross a ten | | | | |
| 22-5=17 | 22-5= 17 | 22- 5 = 17 | | 22-5=17 |
| subtracting two 2-digit numbers that do not cross a ten | | | | |
|  | | | 34-22=57    3 tens subtract 2 tens is 1 ten  6 ones subtract 2 ones is 4 ones | |
| Subtracting two 2-digit numbers that do cross a ten | | | | |
| 52-35= 17 | 52-35= 17 | 52-35=17 | | 52-35= 17 |

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| Multiplication | | | |
| Arrays  2X4=8    Or | Arrays (commutativity)  2X4= 8    Or | | Number line (commutativity)  2X4=8    (links with division, 8 shared by 4 equals 2 or 8 shared by 2 equals 4) |
| Division | | | |
| Bar model  8÷2= | | Bar model and number line (dependent on division)  30÷2= 15    30÷5=6    (links with multiplication, 5 multiplied by 6 equals 30 or 6 lots of 5 or 6 5s go into 30) | |
| Fractions of a number | | | |
| Bar model for working out a fraction of a number  ¼ of 20= 5 | | Bar model for working out a fraction of a number  ¼ 0f 20= 5   |  |  |  |  | | --- | --- | --- | --- | | **Whole amount = 20** | | | | | 5 | 5 | 5 | 5 | | 1st part | 2nd part | 3rd part | 4th part | | |
| Fractions of an amount | | | |
| Bar model for working out a fraction of a number  2/4 of 20 = 10  count = 20 | | Bar model for working out a fraction of a number  2/4 of 20 = 10  count = 20 | |
| *Other division methods above can be used to support fractions this is dependent on specific children* | | | |