## Mount Pleasant Primary School Calculation Policy

| Year 6 - By the end of year 6 we expect children to: |  |  |  |
| :---: | :---: | :---: | :---: |
| Addition | Subtraction | Multiplication | Division |
| Add the nearest multiple of 10,100 or 1000 , then adjust - mentally <br> Continue as in Year 2, 3,4 and 5 but with appropriate numbers including extending to adding $0.9,1.9,2.9$ etc <br> Column Addition <br> Add numbers with up to 6 digits or add several numbers together including metric. <br> Extend to numbers with any number of digits and decimals with up to 3 decimal places. $124.9+117.25=242.15$ $\begin{array}{r} 124.90 \\ +\quad \frac{117.25}{242.15} \\ \hline \frac{11}{11} \end{array}$ <br> Adding Fractions $4^{2} / 3+1^{2 / 12}=4^{8} / 12+1^{2 / 12}=5^{10} / 12=55 / 6$ | Subtract the nearest multiple of 10,100 or 1000, then adjust <br> Continue as in Year 2, 3, 4 and 5 but with appropriate numbers. <br> Complementary addition <br> Use complementary addition for subtractions where the larger number is a multiple or near multiple of 1000 or 10,000 and for subtractions of decimal numbers, including money, <br> e.g. £50.00-£35.84 <br> Compact Column Subtraction - up to 5 digits , 3 decimal places and metric structured progression- exchanging with 10 , then 100s $\begin{gathered} 312 \\ 454310 \\ -1265 \\ \hline 44165 \\ \hline \end{gathered}$ $\begin{array}{r} 33_{4}^{12} \\ -\quad \begin{array}{l} 313^{10} 0 \\ 31265 \\ \hline 34165 \\ \hline 3 \\ \hline 14^{12} 3.178 \\ -26.80 \\ \hline 116.98 \\ \hline \end{array} \quad 143.78-26.8= \\ \hline \end{array}$ | Short Multiplication $\begin{array}{r} 3245 \\ \times \quad 3 \\ \hline 9735 \\ \hline 11 \end{array}$ <br> Multiplying decimals with 2 decimal places <br> Multiplying number with 4 digits by 1 digit. <br> Multiplying number with 3 digits by 2 digit. <br> Long Multiplication $\begin{array}{r} 11 \\ 8 x \\ 265 \\ \times \quad 24 \\ \hline 1060 \\ +5300 \\ \hline 6360 \end{array}$ <br> Multiply Fractions <br> Multiply fractions and mixed numbers by whole numbers: $3 / 4 \times 6=18 / 4=4^{2} / 4=4^{1} / 2$ <br> Multiply fractions by proper fractions: $2 / 7 \times 3 / 5=6 / 35$ | Short Division <br> Give remainders as fractions and decimals <br> Answer: 67 ¼ OR 67.25 $\begin{aligned} & 126.52 \div 4 \\ & 4 \begin{array}{lllll} 0 & 3 & 1.6 & 3 \\ 4 & 1^{1} 2 & 6 . & { }^{2} 5^{1} 2 \end{array} \end{aligned}$ <br> Long Division $\begin{array}{cr} 8684 \div 23 \\ 33 \lcm{781684} r 13 & 23 \\ -\frac{69}{178} & 46 \\ -\frac{161}{174} & 99 \\ -\frac{161}{13} & 115 \\ 20 & 161 \end{array}$ <br> Dividing Fractions $3 / 4 \div 2$ <br> Put the whole number over 1 $3 / 4 \div 2$ |

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