
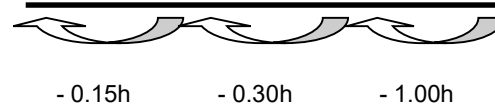


Mount Pleasant Calculation Policy

Year 4 - By the end of year 4 we expect children to:

Addition	Subtraction	Multiplication	Division
<p>Add the nearest multiple of 10, then adjust Continue as in Year 3 but with appropriate numbers e.g. $163 + 29$ is the same as $163 + 30 - 1$</p> <p>Column Addition Compact method- up to four digits The carried digit is in the correct column. Decimal numbers in the context of money and metric units.</p> <p>Carry in the ones column first, then extend to tens column.</p> $\begin{array}{r} 346 \\ + 225 \\ \hline 571 \\ 1 \end{array}$ $\begin{array}{r} 3587 \\ + 675 \\ \hline 4262 \\ 111 \end{array}$ $\begin{array}{r} 3587 \\ + 2675 \\ \hline 6262 \\ 111 \end{array}$ <p>Extend to decimals in the context of money (vertically) $\pounds 2.50 + \pounds 1.75 = \pounds 4.25$</p> $\begin{array}{r} \pounds 2.50 \\ + \pounds 1.75 \\ \hline \pounds 4.25 \\ 1 \end{array}$	<p>Subtract the nearest multiple of 10, then adjust. Continue as Year 3 but with appropriate numbers. $178 - 69$ is the same as $178 - 70 + 1$</p> <p>Complementary addition Find a small difference by counting up e.g. $5003 - 4996 = 7$</p> <p>Use complementary addition to subtract amounts of money, and for subtractions where the larger number is a multiple of 1000 or 100</p> <p>E.g. $2000 - 1865$</p> $\begin{array}{r} 487 \\ - 264 \\ \hline 223 \end{array}$ $\begin{array}{r} 5 \\ 3 \cancel{6} 17 \\ - 148 \\ \hline 219 \end{array}$	<p>Short multiplication Multiplying a number with up to 2 digits by a single digit.</p> <p>Short multiplication Multiplying a number with up to 3 digits by a single digit.</p> $\begin{array}{r} 136 \\ \times 4 \\ \hline 544 \\ 12 \end{array}$ <p>Multiplying a decimal to one decimal place.</p> $\begin{array}{r} 12.5 \\ \times 2 \\ \hline 25.0 \\ 1 \end{array}$	<p>Short Division (no remainders- 3 digits divided by a single digit)</p> $252 \div 7$ $\begin{array}{r} 036 \\ 7 \overline{) 2542} \end{array}$ <p>Short Division (remainders - 3 digits divided by a single digit)</p> $256 \div 7$ $\begin{array}{r} 036r4 \\ 7 \overline{) 2546} \end{array}$ <p>Short Division (remainders expressed as a fraction - 3 digits divided by a single digit)</p> $256 \div 7 = 36 \frac{4}{7}$ $\begin{array}{r} 036r4 \\ 7 \overline{) 2546} \end{array}$

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<p>Ensure that the carried digit is in the correct column.</p> <p>Add like fractions e.g. $\frac{3}{5} + \frac{4}{5} = \frac{7}{5} = 1 \frac{2}{5}$.</p> <p>Be confident with fractions that add to 1 and fraction complements to 1 e.g. $\frac{2}{3} + ? = 1$</p> <p>Note- For time calculations and time problems (Use the number line method – counting on)</p> <p>School starts at 8.55. We work for 1h 45m. What time is break? +0.05h +0.40h + 1.00h</p>  <p>Counting on method for adding time</p>	<p>Subtracting Fractions Subtract like fractions, e.g. $\frac{1}{4} + \frac{1}{8} = \frac{3}{8}$ Use fractions that add to 1 to find fraction complements to 1, e.g. $1 - \frac{2}{3} = \frac{1}{3}$</p> <p>Note- For time calculations and time problems (Use the number line method – counting back)</p> <p>The school fair starts at 11 o'clock. It takes me 1 hour and 45 minutes to walk to school. What time do I need to set off?</p> <table><tr><td>9.15</td><td>9.30</td><td>10.00</td></tr><tr><td>11.00</td><td></td><td></td></tr></table>  <p>Counting back method for subtracting time</p>	9.15	9.30	10.00	11.00				
9.15	9.30	10.00							
11.00									