

END OF YEAR 7

Stage 7 (Advanced Multiplicative)

Addition and Subtraction	Multiplication and Division	Fractions, Decimals, Percentages
<p>Strategy 1: $4.8 + 3.7 = 8.5$ (part whole) $4.8 + 3.7 =$ $\quad \quad \quad ?$</p> <div style="text-align: center;"> $\begin{array}{r} +0.2 \downarrow \quad \downarrow -0.2 \\ 4.8 + 3.7 \\ \hline 5.0 + 3.5 = 8.5 \end{array}$ </div> <p>Strategy 2: $4.8 - 3.7 = 1.1$ (part whole) $4.8 - 3.7 =$ $\quad \quad \quad ?$</p> <div style="text-align: center;"> $\begin{array}{r} +0.3 \downarrow \quad \downarrow +0.3 \\ 4.8 - 3.7 \\ \hline 5.1 - 4.0 = \\ \quad \quad 1.1 \end{array}$ </div> <p>Strategy 3: $564 + 377 = 941$ (algorithm)</p> <p>Strategy 4: $564 - 377 = 187$ (algorithm)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: left;"> $\begin{array}{r} 564 \\ +377 \\ \hline 941 \end{array}$ </div> <div style="text-align: left;"> $\begin{array}{r} 564 \\ -377 \\ \hline 187 \end{array}$ </div> </div>	<p>Strategy 1: Students apply the Year 6 multiplication strategy (place value) to 1 digit numbers X 3 digit numbers</p> <p>Strategy 2: Students apply the Year 7 division strategy to 3 digit numbers \div 1 digit numbers</p> <p>Strategy 3: Students can apply the above division strategy to questions with remainders.</p> <p>Strategy 4: Use an algorithm to solve mult problems like $8 \times 63 = ?$</p> <div style="text-align: center;"> $\begin{array}{r} 2 \\ 63 \\ \times 8 \\ \hline 504 \end{array}$ </div> <p>Strategy 5: Use an algorithm to solve div problems like $72 \div 3 = ?$ (2 or 3 digits \div 1 digit) e.g. $3 \overline{)73}$</p>	<p>Strategy 1: Who has travelled further A or B $A = 1/3$ of 180 $B = 4/6$ of 93</p> <p><i>Solve by $4/6 = 2/3$ so...</i> $93 \div 3 = 31$ and $31 \times 2 = 62$</p>
Knowledge	<p>Fractional numbers: Stage 7: Recognises equivalent fractions (e.g. $3/4 = 6/8$), express ratios as fractions and vice versa (e.g. $2/3 = 2:1$) and add simple fractions with unlike denominators e.g. $1/3 + 2/6 = 2/3$</p> <p>Place Value: Stage 7: Knows number of tenths in decimals, orders decimals (e.g. 0.1, 0.2, 0.3)</p> <p>Basic facts: Stage 7: Division Facts</p>	



1) I made 4.8 litres of homemade lemonade in the morning and 3.7 litres in the afternoon. How much lemonade have I made in total?



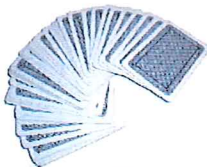
2) We have 4.8 litres of milk in our fridge. We drank 3.7 litres. How much milk do we have left?



3) 564 people enter the school from the front gate and 377 students enter the school from the back gate. How many people in total have entered the school?



4) 564 people are watching a game of basketball. 377 people are supporting the home team. How many people are not supporting the home team?



5) I have 6 packs of cards. There are 52 cards in each pack. How many cards are there in total?



6) I need to pack 82 tennis balls into packs with 3 tennis ball in each. How many tennis ball packs can I make? How many tennis balls will be left over?



7) Van 'A' has travelled $\frac{1}{4}$ of its 120km journey and Van 'B' has travelled $\frac{2}{6}$ of its 90km journey. How far has each van travelled?