


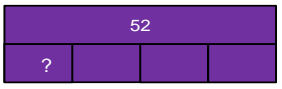
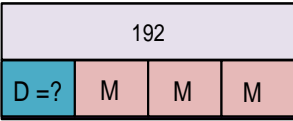
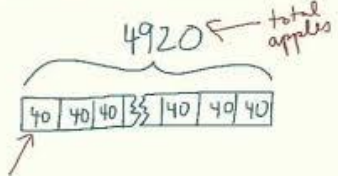
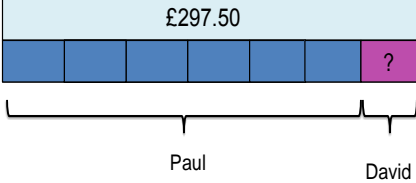
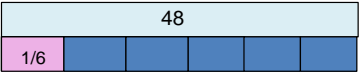
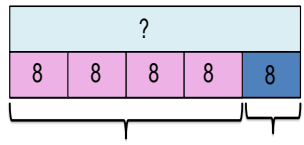
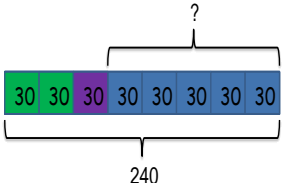


Bar Model Progression

	Year 3	Year 4	Year 5	Year 6																																																												
Addition	 <p>A man sold 230 balloons at a carnival in the morning. He sold another 86 balloons in the evening.</p> <p>a) How many balloons did he sell in all?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="2" style="background-color: #800000; color: white; font-size: 2em;">?</td> </tr> <tr> <td style="background-color: #800000; color: white;">230</td> <td style="background-color: #800000; color: white;">86</td> </tr> <tr> <td style="font-size: 0.8em;">Morning</td> <td style="font-size: 0.8em;">Afternoon</td> </tr> </table>	?		230	86	Morning	Afternoon	<p>Alison jogs 6,860 metres and Calvin jogs 5,470 metres. How far do the jog altogether?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="2" style="background-color: #add8e6;">?</td> </tr> <tr> <td style="background-color: #add8e6;">6860m</td> <td style="background-color: #add8e6;">5470m</td> </tr> </table>	?		6860m	5470m	<p>MacDonalds sold £957.68 worth of hamburgers and £1238.5 worth of chicken nuggets. How much money did they take altogether?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="2" style="background-color: #f5deb3;">?</td> </tr> <tr> <td style="background-color: #f5deb3;">£957.68</td> <td style="background-color: #f5deb3;">£1238.5</td> </tr> </table>	?		£957.68	£1238.5	<p>Jack went on holiday. His flight cost £70.50, the hotel £1295 and spending money £427.89. How much did Jack spend on his holiday?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="3" style="background-color: #add8e6;">?</td> </tr> <tr> <td style="background-color: #add8e6;">£70.50</td> <td style="background-color: #add8e6;">£427.89</td> <td style="background-color: #add8e6;">£1295</td> </tr> </table>	?			£70.50	£427.89	£1295																																								
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Subtraction	<p>Mary made 686 paper flowers. She sold some of them. If 298 were left over, how many flowers did she sell?</p>  <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="2" style="background-color: #c08080;">686</td> </tr> <tr> <td style="background-color: #ffff00;">?</td> <td style="background-color: #804020;">298</td> </tr> </table> <p style="font-size: 0.8em; margin-top: 5px;">686 - 298 Mary sold 384 flowers.</p>	686		?	298	<p>There are 3,160 books in a shop. 1,226 are in English and the rest are in French. How many French books are there?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="2" style="background-color: #add8e6;">3160</td> </tr> <tr> <td style="background-color: #add8e6;">1226</td> <td style="background-color: #add8e6;">?</td> </tr> </table>	3160		1226	?	<p>A whole to Lapland costs £5005 for a family of four, the Smith's have only saved £3787.75, how much money do they still need to find?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="2" style="background-color: #f5deb3;">£5005</td> </tr> <tr> <td style="background-color: #800000; color: white;">?</td> <td style="background-color: #f5deb3;">£3787.75</td> </tr> </table>	£5005		?	£3787.75	<p>Chloe wants to buy a new car for £6450. She has £4885.87 in her savings account. Her Dad gives her £150 for her birthday. How much more money does she need to save?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="3" style="background-color: #add8e6;">£6450</td> </tr> <tr> <td style="background-color: #add8e6;">£4885.87</td> <td style="background-color: #add8e6;">£150</td> <td style="background-color: #add8e6;">?</td> </tr> </table>	£6450			£4885.87	£150	?																																										
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Multiplication	<p>Four children go to the cinema. They each pay £15. How much do they pay altogether?</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="4" style="background-color: #4b0082; color: white;">?</td> </tr> <tr> <td style="background-color: #4b0082; color: white;">£15</td> <td style="background-color: #4b0082; color: white;">£15</td> <td style="background-color: #4b0082; color: white;">£15</td> <td style="background-color: #4b0082; color: white;">£15</td> </tr> </table>	?				£15	£15	£15	£15	<p>A computer costs 5 times as much as a television. The television costs £429. How much does the computer cost?</p> <p style="font-size: 0.8em;">Cost of the computer</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="5" style="background-color: #4b0082; color: white;">?</td> </tr> <tr> <td style="background-color: #4b0082; color: white;">£429</td> <td style="background-color: #4b0082;"></td> <td style="background-color: #4b0082;"></td> <td style="background-color: #4b0082;"></td> <td style="background-color: #4b0082;"></td> </tr> </table>	?					£429					<p>The cost to run a sports centre is £4375 a week, how much would it cost to run for 16 weeks?</p> <p style="font-size: 0.8em;">£4375 a week</p>  <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="16" style="background-color: #add8e6;">?</td> </tr> <tr> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> <td style="background-color: #800080;"></td> </tr> </table>	?																																<p>If 5 friends went on holiday and each paid £579.75 what was the total cost of the holiday?</p> <p style="font-size: 0.8em;">Cost of the holiday</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td colspan="5" style="background-color: #4b0082; color: white;">?</td> </tr> <tr> <td style="background-color: #4b0082; color: white;">£579.75</td> <td style="background-color: #4b0082;"></td> <td style="background-color: #4b0082;"></td> <td style="background-color: #4b0082;"></td> <td style="background-color: #4b0082;"></td> </tr> </table>	?					£579.75				
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Division	<p>Pam put the same number of apples in each of 4 bags. She ended up with 52 apples in bags. How many apples did she put in each bag?</p> 	<p>Desmond and Melissa collect cards. They have 192 cards in all. Melissa has three times as many cards as Desmond. How many cards does Desmond have?</p> 	<p>Frank has 4920 apples. He needs to put them into baskets of 40. How many baskets does he need?</p> 	<p>Paul and David hire a car together at a cost of £297.50. Paul pays 6 times more than David. How much does David pay?</p> 
Fractions	<p>$\frac{5}{6}$ of 48 =</p> 	<p>$\frac{4}{5}$ of the children in the choir are girls. If there are 8 boys, how many children are there altogether?</p>  <p>$8 \times 5 = 40$</p> <p>There are 40 children altogether.</p>	<p>$\frac{1}{4}$ of the balls in a basket are green. $\frac{1}{8}$ of the balls in a basket are purple. If there are 240 balls in all, how many of the balls are neither green or purple?</p> 	<p>Vincent spent $\frac{4}{7}$ of his money on a pair of shoes. The shoes cost £48. How much money did he have at first?</p> 