



### ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

**TOPIC TITLE:** LS7 Multiple and divide mentally.

**YEAR GROUP:** 5

**TERM:** Autumn 1

<p><b>Vocabulary</b> Array Distributive law Multiply/ divide Decimal Doubling/ halving Regroup Partitioning Divisibility rules RUCSAC</p>	<p><b>Skills</b></p> <ul style="list-style-type: none"><li>- Using known facts to support mental calculations.</li><li>- Doubling/ halving</li><li>- Regrouping.</li><li>- Selecting the most appropriate strategy.</li></ul>	<p><b>What we already know</b></p> <ul style="list-style-type: none"><li>- Multiplication and division strategies (fact families).</li><li>- Knowledge of base ten system.</li><li>- Divisibility rules for 2, 5 and 10.</li><li>- Knowledge of prime numbers</li></ul>																															
<p><b>Illustration</b></p> <div data-bbox="123 901 459 989"><p>Regroup 105 in as many different ways as you can.</p></div> <div data-bbox="459 853 683 1013"></div> <div data-bbox="716 901 1019 973"><table border="1"><tr><td colspan="2">105</td></tr><tr><td>90</td><td>15</td></tr></table></div> <div data-bbox="1064 821 1422 1204"><table border="1"><tr><td>2</td><td>→</td><td>if the <u>last</u> digit is <u>even</u> or <u>zero</u>.</td></tr><tr><td>3</td><td>→</td><td>if the <u>sum</u> of the digits is divisible by <u>three</u>.</td></tr><tr><td>4</td><td>→</td><td>if the <u>last two</u> digits are divisible by <u>four</u>.</td></tr><tr><td>5</td><td>→</td><td>if the <u>last</u> digit is <u>zero</u> or <u>five</u>.</td></tr><tr><td>10</td><td>→</td><td>if the <u>last</u> digit is <u>zero</u>.</td></tr></table></div> <div data-bbox="1456 877 1624 997"><p><b>Partitioning</b> Split the tens and units. Multiply separately. Add.</p></div> <div data-bbox="1624 829 1915 1125"><math display="block">\begin{array}{r} 5 \times 28 \\ \swarrow \quad \searrow \\ 20 \quad 8 \\ \downarrow \quad \downarrow \\ \times 5 \quad \times 5 \\ 100 \quad 40 \\ \hline 100 + 40 = 140 \end{array}</math></div> <div data-bbox="2049 821 2184 1165"><table border="1"><tr><td>R</td><td>Read and label - Identify what you know. Facts.</td></tr><tr><td>U</td><td>Underline key numbers and vocabulary.</td></tr><tr><td>C</td><td>Choose the calculation(s) and estimate.</td></tr><tr><td>S</td><td>Solve - do the calculations.</td></tr><tr><td>A</td><td>Answer - what does it mean?</td></tr><tr><td>C</td><td>Check and consider - has my answer made sense? Can I check it another way?</td></tr></table></div>			105		90	15	2	→	if the <u>last</u> digit is <u>even</u> or <u>zero</u> .	3	→	if the <u>sum</u> of the digits is divisible by <u>three</u> .	4	→	if the <u>last two</u> digits are divisible by <u>four</u> .	5	→	if the <u>last</u> digit is <u>zero</u> or <u>five</u> .	10	→	if the <u>last</u> digit is <u>zero</u> .	R	Read and label - Identify what you know. Facts.	U	Underline key numbers and vocabulary.	C	Choose the calculation(s) and estimate.	S	Solve - do the calculations.	A	Answer - what does it mean?	C	Check and consider - has my answer made sense? Can I check it another way?
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