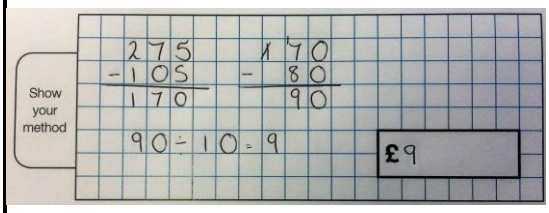
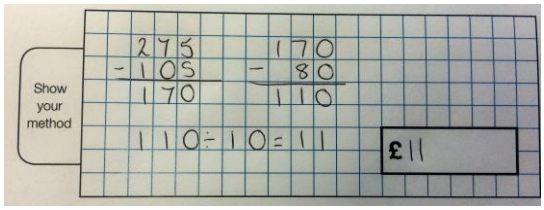
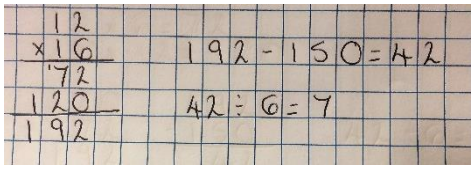
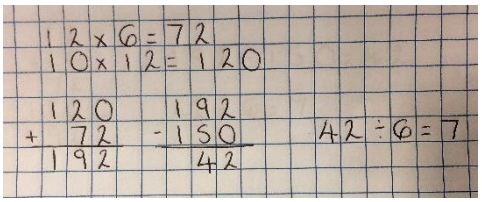
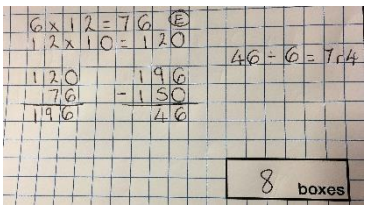
Year 4 – Reasoning and Problem Solving – Autumn

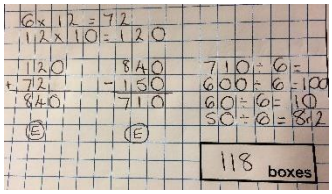
General Marking Principles

- Allow answers given in words unless otherwise instructed. Ignore spelling errors providing intention is clear.
- For numbers with four or more digits, accept answers with or without a comma or other separator.

Question	Answer	Marks	Notes and guidance
1	260	1	
2	$3 \times 4 = 4 + 4 + 4$ ✓ $3 \times 4 = 4 \times 3$ ✓ $3 \times 4 = 2 \times 6$ ✓ $3 \times 4 = 12 \times 2$ ☐	1	**Award 1 mark** for all 3 statements correctly ticked. Accept any other clear way of indicating the correct answers. **Do not** award the mark if additional statements are indicated, unless it is clear that the correct statements are the pupil's final choice.
3	Charlotte	1	Accept any other clear way of indicating the correct answer.
4	B C A	1	Accept any other clear way of indicating the correct answer. e.g. writing the numbers on the number line.
	6,000	1	
5	One thousand, three hundred	1	**Do not** accept 1,300 Must be written in words.
	Two different ways of partitioning 1,300 e.g. 1,000 and 300 500 and 800	2	**Award 2 marks** for both part whole models correctly completed. **Award 1 mark** for one part whole model correctly completed.
6	e.g. 2,970 + 100 = 3,070	1	Award 1 mark for any example where adding 100 would change the hundreds and thousands digit.

7	75, 100, 125	1	Award 1 mark for all three numbers correct.
8	422 – 990 = 568 ☐ 422 + 568 = 990 ☑ 422 = 568 – 990 ☐ 422 = 990 – 568 ☑	1	**Award 1 mark** for both statements correctly ticked. Accept any other clear way of indicating the correct answers. Do not award the mark if additional statements are indicated, unless it is clear that the correct statements are the pupil's final choice.
	442	1	
9	£9.00	2	**Award 2 marks** for the correct answer of £9.00  Accept £9 or £9.00 If the answer is incorrect, **award 1 mark** for a full method with no more than one arithmetical error, e.g. 
10	7 × 3 = 21 **or** 3 × 7 = 21 6 × 9 = 54 **or** 9 × 6 = 54	2	**Award 2 marks** for both statements correctly completed. **Award 1 mark** for 1 statement correctly completed.
	6 60 6	3	**Award 1 mark** for each number sentence correctly completed.

11	14 cm	1	
	Any rectangle with perimeter of 12 cm e.g. 3 cm by 3 cm 2 cm by 4 cm 1 cm by 5 cm	1	
12	1 and 1	1	Award 1 mark for both numbers correctly completed **Do not** accept 0
13	< < =	3	**Award 1 mark** for each statement correctly completed.
14	–1	1	
15	e.g. Courtney could have added 4,000 and 6,000 and then subtracted 2	1	Award 1 mark for any explanation of a more efficient method.
16	7	3	**Award 3 marks** for the correct answer of 7 e.g.   If the answer is incorrect, **award 2 marks** for a full method with no more than one arithmetical error, e.g. 

			Award 1 mark for evidence of an appropriate method. e.g. 

Total: 30 marks