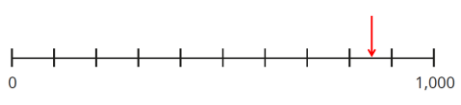
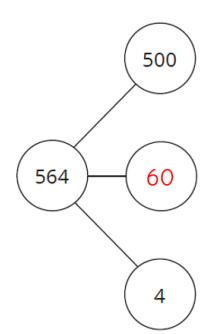
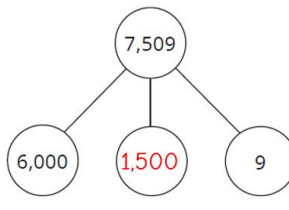


Year 4 – Reasoning & problem solving

General marking principles

- Answers should be single values in their simplest form unless the mark scheme says otherwise
- Accept reversed digits provided intention is clear e.g. a reversed 2 must clearly show the characteristics of a 2 rather than a 5
- Do not award the mark if more than one answer is given
- For numbers with four or more digits, accept answers with a comma positioned incorrectly or without a comma. Do not accept a decimal point or an apostrophe.

Question	Answer	Marks	Notes and guidance					
1	523	1						
	Five hundred and twenty-three	1	Ignore spelling errors if intention is clear.					
2	<table border="1" style="display: inline-table; text-align: center;"> <tr> <td>700</td> <td>800</td> <td>900</td> <td>1,000</td> <td>1,100</td> </tr> </table>	700	800	900	1,000	1,100	1	Both numbers needed.
700	800	900	1,000	1,100				
3	Draws any shape with area less than 6 squares.	1	Allow half squares.					
4		1	Accept any clear indication and allow slight inaccuracy if intention to show 850 is clear.					
5		1						
		1						

Year 4 – Reasoning & problem solving

Question	Answer	Marks	Notes and guidance
6	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid gray; padding: 2px; margin-bottom: 5px;">$475 + 125$</div> <div style="border: 1px solid gray; padding: 2px; margin-bottom: 5px;">$475 - 125$ ✓</div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid gray; padding: 2px; margin-bottom: 5px;">$125 + 475$</div> <div style="border: 1px solid gray; padding: 2px; margin-bottom: 5px;">$475 - 350$ ✓</div> </div>	1	Accept any clear indication. Must indicate both subtractions.
7	£23	2	Award 1 mark for complete correct method with no more than one arithmetic error.
8	Indicates "No" AND gives reason e.g. <ul style="list-style-type: none"> • It should be 5,000 • It's going up in one thousands • The end of the line would be 1,000 	1	Do not award mark if no reason given.
9	Indicates CX	1	Accept any clear indication. Do not award mark if more than one answer indicated.
10	$10 \times 3 = 6 \times 5$	1	
	$500 - 50 = 400 + 50$	1	
	$8 \times 2 \times 3 = 3 \times 4 \times 4$	1	
11	<	1	
	>	1	
12	£12	2	Award 1 mark for complete correct method with no more than one arithmetic error.

Year 4 – Reasoning & problem solving

Question	Answer	Marks	Notes and guidance
13	e.g. "600 - 300 = 300"	1	600 and 300 must be seen. Do not accept incomplete answers such as "It should be smaller"
14	3,990	2	Award 1 mark for complete correct method with no more than one arithmetical error.
15	1,010 1,000 1,000	2	Award 1 mark for two correct answers.
16	40	1	
	8	2	Award 1 mark for complete correct method with no more than one arithmetic error.
17	e.g. "She could subtract 2,000 and then add 1"	1	Accept any correct explanation.
18	70	2	Award 1 mark for complete correct method with no more than one arithmetic error.

Total : 30 marks