

## Addition and Subtraction Unit 4

### Problem solving and reasoning questions

Complete each diagram.

<b>534</b>	
<b>487</b>	

<b>132</b>	
<b>86</b>	

<b>327</b>	
	<b>259</b>

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Subtract 377, then 387, then 397 from 424.

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Find the difference between a pair of three-digit numbers each of whose digits adds to 9. E.g.  $306 - 261$ .

Add the digits of your answer. Repeat three times.

Say what you notice.

These questions should be provided for children to do once the unit has been completed. They assess the children's mastery of the skills and concepts in this unit.

## Addition and Subtraction Unit 4

### Problem solving and reasoning questions

Complete each diagram.

534	
487	47

132	
86	46

327	
68	259

These are best solved by counting up from the smaller number. Where there are errors, check children have chosen the most efficient jumps and then added them correctly.

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Subtract 377, then 387, then 397 from 424.

47, 37 and 27 respectively. Each time 10 more is subtracted so the answer is 10 less. Are children able to make the connection between the solutions or do they treat each one as a discrete calculation?

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Find the difference between a pair of three-digit numbers each of whose digits adds to 9. E.g.  $306 - 261$ .

Add the digits of your answer. Repeat three times.

Say what you notice. **Digits always total a multiple of 9, for example:**

$$711 - 126 = 585 - \text{Digits total } 18$$

$$432 - 315 = 117 - \text{Digits total } 9$$

$$612 - 333 = 279 - \text{Digits total } 18$$

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