Addition and Subtraction Unit 3

Problem solving and reasoning: Questions

Year 2

Write three additions which include a 2-digit number ending in 5, and the number 7.

Complete each sentence by writing the missing numbers.
47 + [_] = 53
36 + 6 = [_]
[_] – 4 = 39
27 + 7 = [_]
[_] – 3 = 78

Tom has 66 cards. He needs to get 72 to complete his set. How many more does he need?

Complete this addition grid.

+	7	
45		50
68		73

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.

Year 3

Complete the bar models:

?	
347	7

?	
555	8

342	
7	?

623	
8	?

How many times can 7 be subtracted from 232 before the answer is less than 200?

Kit says 'If I keep adding 6 to 152, I'll eventually reach exactly 200'. Is he correct?

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 3

Problem solving and reasoning: Answers

Year 2

Write three additions which include a 2-digit number ending in 5, and the number 7.
e.g. 15 + 7 = 22, 25 + 7 = 32, 35 + 7 = 42.
Note that in each instance the answer ends in 2.

Complete each sentence by writing the missing numbers.
47 + 6 = 53
36 + 6 = 42
43 – 4 = 39
27 + 7 = 34
81 – 3 = 78
Children should be applying number bond knowledge rather than counting on or back. Some errors (particularly an answer one more or one less than the correct answer) will be due to this.

Tom has 66 cards. He needs to get 72 to complete his set. How many more does he need? 6 more.

Complete this addition grid.

+	7	5
45	**52**	50
68	**75**	73

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.

Year 3

Complete the bar models:

354	
347	7

563	
555	8

342	
7	335

623	
8	615

Answers of 349 and 631 for the third and fourth questions respectively result from children adding rather than subtracting the 1-digit number. Other errors may arise from children counting on or back in 1s rather than using number facts to bridge 10s.

How many times can 7 be subtracted from 232 before the answer is less than 200?

5 times – counting back in 7s from 232: 225, 218, 211, 204, 197.

Kit says 'If I keep adding 6 to 152, I'll eventually reach exactly 200'. Is he correct?

He is - counting on in 6s from 152: 158, 164, 170, 176, 182, 188, 194, 200.

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.