

More Addition and Subtraction Unit 3

Problem solving and reasoning: Questions

Year 2

Fill in the missing numbers.

$$65 + \underline{\quad} = 70$$

$$54 + \underline{\quad} = 60$$

$$37 + \underline{\quad} = 40$$

$$80 - \underline{\quad} = 71$$

Write the missing number in each diagram.

| | |
|-----------|---|
| 80 | |
| 6 | ? |

| | |
|-----------|---|
| 30 | |
| 26 | ? |

| | |
|------------|---|
| 100 | |
| 85 | ? |

Mystery number

I have 1 digit. I make 40 when added to a 2-digit number whose digits add to 9. What number am I?

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

What mistake has Fred made in each of his sums?

1. $63 + 47 = 100$

2. $26 + 84 = 100$

3. $41 + 69 = 100$

Correct each one for him.

Write all additions of this form: $[\] + [\] = 100$ where one of the numbers has two digits the same.

Write three different subtractions where Frog does two hops and the first is 4.

Use Maths Frog to help you write the missing digits:

$$8 \square - 48 = 34$$

$$\square 5 - 27 = 6 \square$$

Write a subtraction where the tens digit in the smaller number is 2 less than the tens digit in the bigger number and the answer is 16.

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.

More Addition and Subtraction Unit 3

Problem solving and reasoning: **Answers**

Year 2

Fill in the missing numbers.

$$65 + 5 = 70$$

$$54 + 6 = 60$$

$$37 + 3 = 40$$

$$80 - 9 = 71$$

Answers of 6, 7 and 4 for the first three questions suggest children are counting on in ones and including the starting number in the count. In discussing these and the next set of questions encourage children to use number bonds and place value, e.g. since $5 + 5 = 10$, $65 + 5 = 70$.

Write the missing number in each diagram.

| | |
|-----------|----|
| 80 | |
| 6 | 74 |

| | |
|-----------|---|
| 30 | |
| 26 | 4 |

| | |
|------------|----|
| 100 | |
| 85 | 15 |

Mystery number

I have 1 digit. I make 40 when added to a 2-digit number whose digits add to 9. What number am I? **4**, since the 2-digit number must be in the 30s and 36 is the one in that decade that has digits that add to 9

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

What mistake has Fred made in each of his sums?

1. $63 + 47 = 100$ 2. $26 + 84 = 100$ 3. $41 + 69 = 100$

Correct each one for him. In each case the answer should be 110. Fred has added the 10s (which in each case total 100) and ignored the extra 10 from adding the 1s.

Write all additions of this form: $[\] + [\] = 100$ where one of the numbers has two digits the same.

$11 + 89$

$22 + 78$

$33 + 67$

$44 + 56$

$55 + 45$

$66 + 34$

$77 + 23$

$88 + 12$

$99 + 1$

Listed in order, what patterns do children notice?

Write three different subtractions where Frog does two hops and the first is 4.

e.g. $40 - 26$, $30 - 16$, $60 - 36$. Each time Frog first hops 4 to the next 10.

$82 - 48 = 34$

$95 - 27 = 68$

Write a subtraction where the tens digit in the smaller number is 2 less than the tens digit in the bigger number and the answer is 16.

Possibilities include $40 - 24$, $41 - 25$, $42 - 26$, $33 - 17$, $34 - 18$, $35 - 19$.

Errors would include $39 - 23$ or $47 - 31$ where the difference is 16 but the tens digits only have a difference of 1.

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.