

## Addition and Subtraction Unit 1

### Problem solving and reasoning questions

#### Year 3

Write 4 number sentences to relate these three numbers: 13, 19 and 6.

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We know  $13 + 7 = 20$ . So, what is  $130 + 70$ ?

We know  $11 + 9 = 20$ . So, what is  $110 + 90$ ?

Write an addition with an answer of 20.

Write a related addition with an answer of 200.

Repeat for two more pairs of numbers that total 20, then 200.

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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 4

Write 4 number sentences to relate these three numbers: 240, 390 and 150.

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Use a mental method to find:

$150 + 50$

$35 + 65$

$192 + 6$

$66 + 29$

$153 + 39$

$200 - 52$

$240 + 550$

$73 - 25$

$630 - 150$

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 1

### Problem solving and reasoning questions

#### Year 3

Write 4 number sentences to relate these three numbers: 13, 19 and 6.

$13 + 6 = 19$ ,  $6 + 13 = 19$ ,  $19 - 13 = 6$ ,  $19 - 6 = 13$ .

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We know  $13 + 7 = 20$ . So, what is  $130 + 70$ ? 200

We know  $11 + 9 = 20$ . So, what is  $110 + 90$ ? 200

Write an addition with an answer of 20.

Write a related addition with an answer of 200.

Repeat for two more pairs of numbers that total 20, then 200.

e.g.  $10 + 10 = 20$ ,  $100 + 100 = 200$

$15 + 5 = 20$ ,  $150 + 50 = 200$ .

Do children make the connection between the initial number fact to 20 and the subsequent questions?

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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 4

Write 4 number sentences to relate these three numbers: 240, 390 and 150.

$240 + 150 = 390$ ,  $150 + 240 = 390$ ,  $390 - 150 = 240$ ,  $390 - 240 = 150$ .

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Use a mental method to find:

$$150 + 50 \quad 200$$

$$35 + 65 \quad 100$$

$$192 + 6 \quad 198$$

$$66 + 29 \quad 95$$

$$153 + 39 \quad 192$$

$$200 - 52 \quad 148$$

$$240 + 550 \quad 790$$

$$73 - 25 \quad 48$$

$$630 - 150 \quad 480$$

Check children's strategies- are they best suited for the numbers, for example adding and adjusting ( $66 + 29$ ), using complements ( $35 + 65$ ), bridging ( $73 - 25$ ). Can they explain their choices?

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.