

# Addition and Subtraction Strategies

## Don't Subtract - Add! - Homework sheet

AC

EA

AA

AM

AP

I know that problems like  $34 + \square = 51$  and  $51 - 34$  have the same answer (reversability). I am practising this.

Ref: Book 5 Pg. 34

### Exercise 1

Sophie solves  $71 - 29$  by seeing that  $29 + \square = 71$  has the same answer. She says the answer is  $1 + 41 = 42$ .

For these problems rewrite as an addition problem and then use Sophie's addition method to work out these subtractions.

- 1)  $93 - 28$       (2)  $52 - 19$       (3)  $41 - 17$

### Exercise 2

Complete the table by

- 1) writing the subtraction problem indicated by the words
- 2) rewriting the subtraction problem as an addition problem
- 3) using Sophie's addition method to work out these subtractions.

| Word problem  | Subtraction | Addition | Answer |
|---|-------------|----------|--------|
| At 9am there were 71 cars in the car parking building. During the morning 28 cars left. How many cars are left in the car parking building at the end of the morning? |             |          |        |
| Josh had \$83 in his wallet. He spends \$47 at the sports store. How much money does he have left?  |             |          |        |
| There are 142 in Year 9 at ABC College. If 89 of the Year 9 students have gone to the athletics sports, how many Year 9 students are left at school?                  |             |          |        |

### Exercise 3

Use an addition method to work out these subtractions.

- 1)  $91 - 28$       (2)  $61 - 17$       (3)  $83 - 49$

## Exercise 4

Use an addition method to work out these subtractions.

- 1)  $182 - 98$       (2)  $143 - 99$       (3)  $121 - 98$

## Exercise 5

Use an addition method to work out these subtractions.

- 1)  $581 - 538$       (2)  $371 - 339$       (3)  $682 - 627$

## Exercise 6

Use an addition method to work out these subtractions.

- 1)  $433 - 199$       (2)  $561 - 298$       (3)  $742 - 399$

## Exercise 7

Use an addition method to work out these subtractions.

- 1)  $831 - 449$       (2)  $652 - 479$       (3)  $941 - 268$

## Exercise 8

Some of these word problems involve a subtraction.

- 1) Write out each problem with numbers.
  - 2) For the problems that involve a subtraction show which ones are easy to do using an addition method.
  - 3) Find the answers to these ones only.
  - 4) For the other problems give a reason why you wouldn't use the method/strategy.
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- 1) Lote had 64 CDs in her collection. She sells 28 CDs. How many CDs does Lote now have?
  - 2) Cecilia has \$72 in her bank account. For her birthday she gets another \$28 that she puts into her bank account. How much money does Cecilia now have in her bank account?
  - 3) Johnny had \$93 in his wallet. He spends \$57 at the record store. How much money does Jack now have?
  - 4) Ake has 103 minutes left of her free calling time before the end of the month. Over the weekend she rings her friends and talks for 88 minutes altogether. How much free calling time does she have left at the end of the weekend?
  - 5) Frankie has \$789 in his bank account. He withdraws \$48. How much money does Frankie now have in his bank account?

# Don't Subtract – Add!

## Homework sheet answers

### Exercise 1

- 1)  $28 + \square = 93$ ; 65                      (2)  $19 + \square = 52$ ; 33  
3)  $17 + \square = 41$ ; 24

### Exercise 2

- 1)  $71 - 28$ ;  $28 + \square = 71$ ; 43                      (2)  $83 - 47$ ;  $47 + \square = 83$ ; 36  
3)  $142 - 89$ ;  $89 + \square = 142$ ; 53

### Exercise 3

- 1) 63                      (2) 44                      (3) 34

### Exercise 4

- 1) 84                      (2) 44                      (3) 23

### Exercise 5

- 1) 43                      (2) 32                      (3) 55

### Exercise 6

- 1) 234                      (2) 263                      (3) 343

### Exercise 7

- 1) 382                      (2) 173                      (3) 673

### Exercise 8

For these exercises, where the strategy was useful the worked answer is given. If the strategy was not useful a reason is given.

- 1)  $64 - 28$ ;  $28 + \square = 64$ ; 36                      (2)  $28 + 72$ ; addition problem  
3)  $93 - 57$ ;  $57 + \square = 93$ ; 36  
4)  $103 - 88$ ;  $88 + \square = 103$ ; 15  
5)  $789 - 48$ ; easier to do by subtracting tens, subtracting ones