

# Year 4 Addition and Subtraction Challenge Cards

## Answers

- $1259 + 700 = 1957$   
 $5228 - 440 = 4788$   
 $132 + 68 = 200$
- $2416 + 15 + 15 = 2416 + 30$   
 $1904 - 904 \geq 1914 - 924$   
 $2146 - 39 + 42 \geq 2134 - 49 + 21$
- The closest total possible is 1503.  
Here are some examples:  
 $249 + 536 + 718 = 1503$   
 $748 + 192 + 563 = 1503$   
 $756 + 419 + 328 = 1503$
- $43 + 2 = 45$ ,  $42 + 3 = 45$ .
- Sally's Grandad is 62 years old. Let's see why:

First child born: Grandad is 21  
Second child born: Grandad is 25 ( $21 + 4$ )  
Third child born: Grandad is 29 ( $25 + 4$ )  
Fourth child born: Grandad is 33 ( $29 + 4$ )  
Fifth child born: Grandad is 37 ( $33 + 4$ )  
Sixth child born: Grandad is 41 ( $37 + 4$ )  
Sixth child is 21: Grandad is 62 ( $41 + 21$ )

- If the boxes are labelled as a,b,c,d it is clear that d is important because it is added in the ones column twice.

a, b and c must be quite small otherwise the total will be above 100:  
 $a = 1$ ;  $b = 4$ ;  $c = 2$ ;  $d = 7$   
 $a = 1$ ;  $b = 2$ ;  $c = 4$ ;  $d = 7$   
 $a = 2$ ;  $b = 3$ ;  $c = 1$ ;  $d = 8$   
 $a = 2$ ;  $b = 1$ ;  $c = 3$ ;  $d = 8$

a	b
c	d