

Year 4 Addition and Subtraction Challenge Cards

Answers

1. $1259 + 700 = 1957$
 $5228 - 440 = 4788$
 $132 + 68 = 200$

2. $2416 + 15 + 15 = 2416 + 30$
 $1904 - 904 \geq 1914 - 924$
 $2146 - 39 + 42 \geq 2134 - 49 + 21$

3. The closest total possible is 1503.

Here are some examples:

$$249 + 536 + 718 = 1503$$

$$748 + 192 + 563 = 1503$$

$$756 + 419 + 328 = 1503$$

4. $43 + 2 = 45$, $42 + 3 = 45$.

5. 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 ($41 + 21$)

6. 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