

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:
 $249 + 536 + 718 = 1503$
 $748 + 192 + 563 = 1503$
 $756 + 419 + 328 = 1503$
- $43 + 2 = 45, 42 + 3 = 45.$
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Operations	-8, -7, -6, -5	-10, -9, -8, -7	Formula
+++	-26	-34	$4n + 6$
++-	-16	-20	$2n$
+ - +	-14	-18	$2n + 2$
+ - -	-4	-4	-4
- + +	-12	-16	$2n + 4$
- + -	-2	-2	-2
- - +	0	0	0
- - -	10	14	$-2n - 6$

- 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