

Find a number that would be the hundreds place if it was added to it using tens.

1. a) $3132, 33, 34$
 $30 \times 4 = 120$
 $1 + 2 + 3 + 4 = 10$

b) -38
 $-8, -9 = 10 - 11$
 -17
 -21

2. $a + b + c = 100$ $d + 10$
 $d \times 10 = 24$
 $d \times 10 = 14$

Represented it algebraically.
 Find the number, split it into pairs.

$d \times 10 = 62$
 $(d \times 10) = 52$
 $d = 52$

$a = 14$
 $b = 15$
 $c = 16$
 $d = 17$

$d + 10 = 62$
 $d = 52$

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$1, 2, 3, 4$
 $1 + 2 + 3 = 6$
 $6 - 4 = 2$
 $2, 3, 4, 5$
 $9 - 5 = 4$
 $12 - 6 = 6$

the first 3 numbers are 2 more than the 4th
 kept trying with the next ones up

found patterns
 then worked out what the consecutive numbers would be

5, 6, 7, 8

3) $(1 + 4) - (2 + 3) = 0$
 $(2 + 5) - (3 + 4) = 0$
 $(3 + 6) - (4 + 5) = 0$
 $(18 + 21) - (19 + 20) = 0$

4) The results go up in the 2 times tables (see question 2)

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