

Partitioning 3-digit numbers

Partition 3-digit numbers in various ways



You will need:

- Base 10 blocks

Challenge 1

Partition these numbers into 100s, 10s and 1s using Base 10 material.

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|-------|-------|
| a 128 | b 152 |
| c 177 | d 216 |
| e 258 | f 341 |
| g 309 | h 458 |
| i 473 | j 514 |

Example

$300 + 40 + 7 = 347$

Challenge 2

1 Partition these numbers in as many ways as you can. Only partition the 100s. If you need to, use the Base 10 material to help you.

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|-------|-------|-------|-------|
| a 356 | b 372 | c 484 | d 447 |
| e 563 | f 592 | g 642 | h 684 |

2 Using the same numbers as in Question 1, partition each number in four different ways. This time only partition the 10s.

Example

461

$400 + 60 + 1$

$300 + 160 + 1$

$200 + 260 + 1$

$100 + 360 + 1$

Example

461

$400 + 60 + 1$

$400 + 50 + 11$

$400 + 40 + 21$

$400 + 30 + 31$

Challenge 3

Find the missing numbers.

- a + 120 + 6 = 526
- c + 460 + 15 = 875
- e 300 + + 63 = 793
- g 300 + + = 762

- b + 350 + 9 = 759
- d 200 + + 13 = 463
- f + 260 + = 587
- h 500 + + = 947

