

Writing 1 000

You need: a classmate

ACTIVITY

- One way to write 1 000 is $400 + 600$.
You can expand this example to get more complex pairs:
 $400 + 600 = 1\ 000$
 $450 + 550 = 1\ 000$ (by taking 50 off 600 and adding it to 400)
 $430 + 570 = 1\ 000$ (by taking 20 off the 450 to leave 430 and adding it to the 550 to make 570)
 $428 + 572 = 1\ 000$ (by taking 2 off 30 and adding it to the 570 to make 572)
 - Find five more ways to write 1 000 as the sum of two numbers. (Try to make some of them more complex.)
 - Find five ways to write 1 000 as the sum of three numbers.
- You can also make 1 000 by adding some numbers to themselves.

$2 + 2 + 2 + 2 + \dots$ (or 500×2)



$500 + 500 = 1\ 000$ (or 2×500)

One group of 1 000 or 1 000 groups of 1:
I can write that as $1 \times 1\ 000$ or $1\ 000 \times 1$.



Using two whole numbers each time, write all the whole-number multiplication expressions that equal 1 000. How will you know when you have found them all? Discuss with a classmate the system you used.

- Write three different equations that have 1 000 as the answer. They must have at least two types of operation.

Hmm ... $100 \times 4 + 600 = 1\ 000$



- Expand one of your equations to get more complex groupings. For example:
 $(100 \times 4) + 600 = 1\ 000$ can expand to
 $(50 \times 8) + (100 \times 6) = 1\ 000$ or even to
 $(25 \times 16) + (50 \times 12) = 1\ 000$.