### 0.1 Subtraction

### Subtraction with amounts

When removing a part of an amount, we use the symbol —:

$$5 - 3 = 2$$



# The language box

A calculation involving subtraction includes one or more *terms* and one *difference*. In the calculation

$$5 - 3 = 2$$

both 5 and 3 are terms while 2 is the difference.

Common ways of saying 5-3 is

- "5 minus 3"
- "3 subtracted from 5"

## A new interpretation 0

As mentioned earlier in this book, 0 can be interpreted as "nothing". However, subtraction gives brings the possibility of expressing 0 by other numbers, for example is 7-7=0 and 19-19=0. In many practical situations, 0 indicates some form of equilibrium, like two opposite (in direction) forces of equal magnutide.

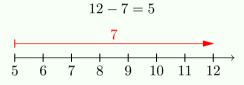
## Subtraction on the number line: Moving to the left

I Section ??, we have seen that + (with positive numbers) involves moving to the right on the number line. With - it's the opposite, we move to the left<sup>1</sup>:





## Example 2



### Notice

At first it may seem a bit odd moving in the opposite direction of the way in wich the arrows point, as in *Example 1* og 2. However, in *Chapter*?? this will turn out to be useful.

<sup>&</sup>lt;sup>1</sup>In figures with number lines the red colored arrows indicates that one shall start at the arrow head and move to the other end.