

# Something Adds Up

You need: a classmate

## ACTIVITY

Mekala is investigating numbers that add up to 100.

She writes a few equations:

$$50 + 50 = 100 \quad 40 + 60 = 100 \quad 20 + 80 = 100 \quad 10 + 90 = 100$$

Then she talks to Isaac about it.

The 2 numbers that add up to 100 have zeros in their ones places and add up to 10 in their tens places.



What do you mean?



Like  $80 + 20$ .  
The 8 and 2 add up to 10.



Yes, but do the ones places have to be zero?  
What about 51 and 49?

So Mekala and Isaac write some more addition equations:

$$64 + 36 = 100$$

$$91 + 9 = 100$$

$$25 + 25 + 25 + 25 = 100$$

$$37 + 26 + 37 = 100$$

I can't see anything the same about these numbers.



Look at the ones digits:  
4 and 6, 1 and 9, 5 and 5 and 5 and 5, 7 and 6 and 7.  
What do they add up to?

- With a classmate, find some other sets of 2 numbers that add up to 100.
  - What can Mekala and Isaac now say about sets of more than 2 numbers that add up to 100? (For example,  $8 + 4 + 9 + 7 + 25 + 47 = 100$ .)
- What can they say about any 2 numbers that add up to 1 000?