

# Crazy Compatibles

You need  a classmate  square grid paper

## Activity

Compatible numbers are numbers that add together to make tidy numbers such as 10, 20, 100, and 1 000.

1. In the grid below, there are lots of pairs of compatible numbers that add up to 100. Find at least 10 pairs and record them.

25	72	85	71	67	75	10	32
60	31	30	55	28	33	35	70
90	18	45	17	41	83	68	65
82	40	69	51	29	59	15	49

Compatibles can help you to solve problems. For example,  $55 + 46$  is the same as  $55 + 45$  and 1 more, so  $55 + 46 = 101$ .

2. Use the compatibles given to solve these problems:
  - a. If you know that  $23 + 77 = 100$ , what is  $25 + 78$ ?
  - b. If you know that  $45 + 55 = 100$ , what is  $47 + 56$ ?
3. Use compatibles to complete these equations:
 

a. $25 + 76 =$	b. $52 + 52 =$	c. $64 + 38 =$
d. $92 + 12 =$	e. $55 + 48 =$	f. $75 + 29 =$
g. $58 + 44 =$	h. $23 + 88 =$	i. $37 + 68 =$
j. $340 + \square = 1\ 000$	k. $297 + \square = 1\ 000$	l. $870 + \square = 1\ 000$
4. Make up a Find the Compatibles grid for a total that is different from 100. Give it to a classmate to solve.

