

Tidying Up

You need a classmate







Activity

1. Gina and Puni are playing a compatible numbers game.

Compatible numbers add together to make tidy numbers such as 10, 20, 100, and 1 000. For example, 16 and 4 are compatible numbers because they add up to the tidy number 20.

16	4	7	5	5
12	7	13	5	5
8	17	18	2	11
19	3	10	10	9
1	15	5	6	14

Their rules:

-  Find as many pairs of numbers as you can in the grid that add up to the tidy number 20.
-  Check each other's compatible numbers.
-  You get a point for each correct compatible pair of numbers.
-  You lose 2 points for each mistake that your classmate finds in your pairs.

Play Puni and Gina's game with a classmate.

2. Gina writes down pairs of compatible numbers that add up to 50:
- | | | | | |
|---------|---------|---------|---------|---------|
| 17 + 33 | 16 + 34 | 26 + 24 | 25 + 25 | 28 + 22 |
| 24 + 27 | 12 + 38 | 17 + 43 | 32 + 18 | 47 + 3 |

Puni checks Gina's pairs and finds two mistakes. Without completing the additions, see if you can find them. Explain to a classmate how you know they are mistakes.

3. Complete the compatible number equations below.

- | | | |
|-------------------------|-------------------------|-------------------------|
| a. $22 + \square = 100$ | b. $84 + \square = 100$ | c. $63 + \square = 100$ |
| d. $48 + \square = 100$ | e. $65 + \square = 100$ | f. $25 + \square = 100$ |
| g. $91 + \square = 100$ | h. $49 + \square = 100$ | |

4. a. What do you notice about compatible numbers that add up to 20, 50, or 100?
- b. Does the strategy for compatible numbers that add up to 100 work for numbers that add up to 1 000?

