

# 1.NBT Number Square

## Task

### Part 1

The teacher explains the Number Square:

- *In this big number square, the numbers in the little individual boxes get bigger by one as we travel to the right.*
  - *When we get to the end of a row, the next number is found at the start of the line below.*
    - *Notice how the numbers get smaller by one as we travel to the left.*
- *When we get to the beginning of a row, the previous number is found at the end of the line above.*
  - *The first number on this number square is 1 and the last number is 100.*

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Class discussion (think and share) and/or individual work (e.g. on white boards) given orally by the teacher:

- What number is to the right of 78? How does that number compare to 78?
- What number is three to the right of 34? How does that number compare to 34?
- What number is five to the left of 18? How does that number compare to 18?
- Start at 13 and move 11 steps forward (starting to the right) on the number square; where do we end up? What did we have to do after seven steps?

## Part 2

If need be, the teacher can review the basics of the 1-100 Number Square. Class discussion and/or individual work proceeds through the following types of questions.

- a. Find the number  $12 - 5$  by starting at 12 on the number square and counting back 5 steps, moving to the left and going up to the previous row as needed.
- b. Find the sum  $37 + 10$  by starting at 37 on the number square and counting forward 10 spaces, moving to the right and going down to the next row as needed.
- c. Find the difference  $37 - 10$  by starting at 37 on the number square and counting back 10 spaces, moving to the left and going up to the previous row as needed.

## Part 3

If needed, the teacher can review basic adding and subtracting on the 1-100 Number Square. Class discussion and/or individual work proceeds through the following types of questions.

- a. Find the following sums using the number square:

- $2 + 10$
- $19 + 10$
- $20 + 10$
- $74 + 10$
- $88 + 10$

- b. Where on the number square is the result of adding ten to a number? Use your answers above to help you.

- c. What happens when we add ten to a number? How would you explain what is happening?

- d. Find the following differences using the number square.

- $13 - 10$
- $39 - 10$
- $40 - 10$
- $65 - 10$

- $92 - 10$

e. Where on the number square is the result of subtracting ten from a number? Use your answers above to help you.

f. What happens when we subtract ten from a number? How would you explain what is happening?

### Extension

a. Find the following sums without any tools (pencil and paper, blocks, or the number square). Use the number square to check your work.

- $38 + 10$
- $23 + 10$
- $51 + 10$
- $77 + 10$
- $5 + 10$

b. Find the following differences without any tools (pencil and paper, blocks, or the number square). Use the number square to check your work.

- $45 - 10$
- $31 - 10$
- $60 - 10$
- $78 - 10$
- $12 - 10$



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