

# SOAR: Student Prompt Book

GRADES  
1 to 3

Number and Operations in Base Ten:  
Place Value



## STUDENT PROMPT BOOK

### Number and Operations in Base Ten: Place Value

#### Table of Contents

<b>I. Understanding, Reasoning with, and Using Numbers Within a Hundred .....</b>	<b>1</b>
1. Recognizes Number and Magnitude of Number.....	3
2. Recognizes Number and Magnitude of Number.....	4
3. Recognizes Pattern and Relationship.....	5
4. Recognizes Pattern and Relationship.....	6
5. Recognizes Pattern and Relationship.....	7
6. Reasoning About Place Value and Magnitude of Numbers .....	8
7. Reasoning About Place Value and Magnitude of Numbers .....	9
8. Reasoning About Place Value and Magnitude of Numbers .....	10
9. Reasoning About Place Value and Magnitude of Numbers .....	11
<b>II. Understanding, Reasoning with, and Using Numbers Within a Thousand .....</b>	<b>13</b>
10. Recognizes Numbers and Understands Magnitude of Number .....	15
11. Recognizes Numbers and Understands Magnitude of Number .....	16
12. Recognizes Patterns and Relationships.....	17
13. Recognizes Pattern and Relationship.....	18
14. Recognizes Pattern and Relationship.....	19
15. Reasoning About Place Value and Magnitude of Numbers .....	20
16. Reasoning About Place Value and Magnitude of Numbers .....	21
17. Reasoning About Place Value and Magnitude of Numbers .....	22
18. Reasoning About Place Value and Magnitude of Numbers .....	23
19. Reasoning About Place Value and Magnitude of Numbers .....	24
20. Reasoning About Place Value and Magnitude of Numbers .....	25
21. Reasoning About Place Value and Magnitude of Numbers .....	26



## **Category I: Understanding, Reasoning with, and Using Numbers Within a Hundred**



1. Tell me about the number you see below.

27

2. Tell me what you know about these numbers.

43

34



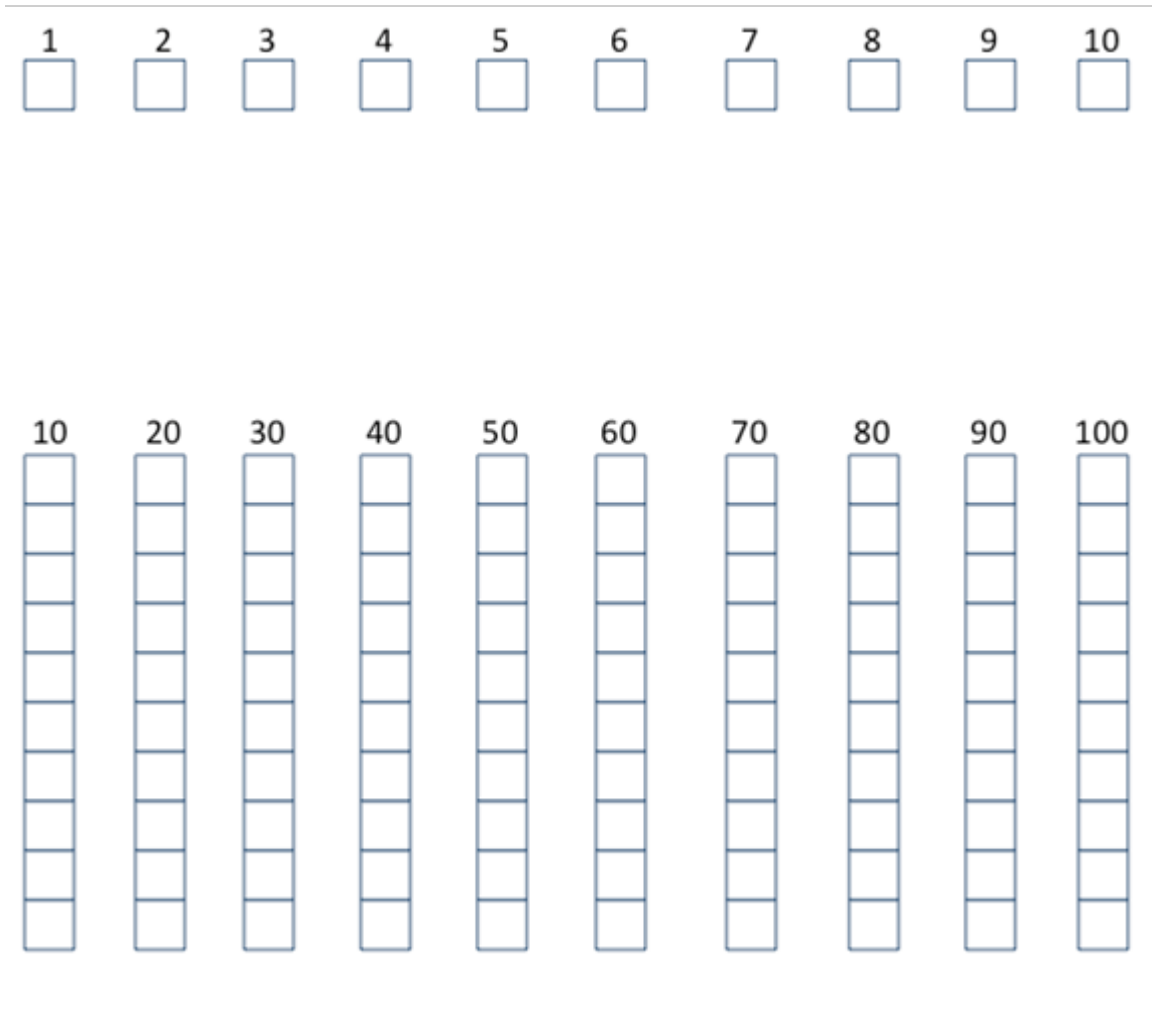
3. Study how the numbers are organized in the table below.

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

4. Study the numbers below and tell me what you notice.

33, 43, 53, 63

5. Study the diagram below. What does the diagram show?



6. We are going to be using the diagrams on this page to answer several questions about numbers.



7. Put the numbers below in order from least to greatest.

75, 45, 8, 72

8. Solve each equation in your head.

$$25 + 9 = \underline{\hspace{2cm}}$$

$$32 + 60 = \underline{\hspace{2cm}}$$

$$21 + 49 = \underline{\hspace{2cm}}$$

9. Solve each equation in your head.

$$70 - 10 = \underline{\hspace{2cm}}$$

$$50 - 20 = \underline{\hspace{2cm}}$$

$$80 - 50 = \underline{\hspace{2cm}}$$





## **Category II: Understanding, Reasoning with, and Using Numbers within a Thousand**



10. What is this number?

145

11. Tell me what you know about these numbers.

435, 543, 354

12. Study the table. Tell me what you notice about how the numbers are organized in this table.

270	271	272	273	274	275	276	277	278	279
280	281	282	283	284	285	286	287	288	289
290	291	292	293	294	295	296	297	298	299
300	301	302	303	304	305	306	307	308	309

13. There are two sets of numbers below. We are going to talk about each set of numbers. Study the first set of numbers.

A. 233, 243, 253, 263

B. 342, 442, 542, 642

14. Study the numbers below and think about how the numbers are related.

1

10

100

15. We are going to be using the diagrams on this page to answer several questions about numbers.





16. Put the numbers below in order from least to greatest.

827, 943, 95, 842, 845

17. Solve the equations as quickly as you can and explain how you arrived at the solutions.

$$240 + 45 = \underline{\hspace{2cm}}$$

$$420 + 170 = \underline{\hspace{2cm}}$$

$$380 + 550 = \underline{\hspace{2cm}}$$

18. Solve the equations as quickly as you can and explain how you arrived at the solutions.

$$459 - 28 = \underline{\hspace{2cm}}$$

$$652 - 210 = \underline{\hspace{2cm}}$$

$$478 - 80 = \underline{\hspace{2cm}}$$

$$587 - 490 = \underline{\hspace{2cm}}$$

19. Estimate the sum for the equation, and then calculate to figure out the exact sum.

$$532 + 349 = \underline{\hspace{2cm}}$$

20. Estimate the difference for the equation, and then calculate to figure out the exact difference.

$$792 - 349 = \underline{\hspace{2cm}}$$

21. Solve the equations below in your head.

$$2 \times 40 = \underline{\hspace{2cm}}$$

$$60 \times 3 = \underline{\hspace{2cm}}$$

$$9 \times 70 = \underline{\hspace{2cm}}$$