SOAR: Student Prompt Book

GRADES 1 to 3

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

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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.

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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?

```
  1  2  3  4  5  6  7  8  9  10
```

```
  10  20  30  40  50  60  70  80  90  100
```

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

A.  

B.  

C. 15

D. 38

E. 45
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.

\[ 70 - 10 = \] 
\[ 50 - 20 = \]
\[ 80 - 50 = \]
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.

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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.

\[ 240 + 45 = \text{________} \]

\[ 420 + 170 = \text{________} \]

\[ 380 + 550 = \text{________} \]
18. Solve the equations as quickly as you can and explain how you arrived at the solutions.

\[
459 - 28 = _____
\]

\[
652 - 210 = _____
\]

\[
478 - 80 = _____
\]

\[
587 - 490 = _____
\]
19. Estimate the sum for the equation, and then calculate to figure out the exact sum.

\[ 532 + 349 = \_\_\_\_\_\_ \]
20. Estimate the difference for the equation, and then calculate to figure out the exact difference.

\[ 792 - 349 = \underline{\phantom{0}} \]
21. Solve the equations below in your head.

\[2 \times 40 = \underline{\hspace{2cm}}\]

\[60 \times 3 = \underline{\hspace{2cm}}\]

\[9 \times 70 = \underline{\hspace{2cm}}\]