Name: ANSWER KEY Date: _____

MA.5.NSO.I.1

Show What You Know (Page 1)

1 Michelle writes the number 15,743. Jason thinks of a number where value of the digit 7 in his number is $\frac{1}{1000}$ the value of the digit 7 in Michelle's number. Which of the follow could be Jason's number?

Ⓐ 15.37
● 15.73
Ⓒ 175,430
Ⓓ 715,430

2 Write a number where the value of the digit 3 is 100 times greater than the value of the digit 3 in 4,321.

Sample response

34,021
(Any number where the digit 3 is in the ten thousands place).

3 Which of the following shows a number where the digit 8 is 100 times less than the value of the 8 in 913,182?

Ⓐ 913.28
● 913.81
Ⓒ 913,821
Ⓓ 918,123

Name: _____ Date: _____

MA.5.NSO.I.1

Show What You Know (Page 2)

4 Select all statements that are true.

- The value of the digit 4 in 4,180 is 10 times less than the value of the digit 4 in 41,280.
- The value of the digit 6 in 20,618 is 100 times greater than the value of the digit 6 in 20,186.
- Ⓒ The value of the digit 9 in 90 is $\frac{1}{100}$ the value of the digit 9 in 900.
- Ⓓ The value of the digit 7 in 713,940 is 100 times greater than the value of the digit 7 in 71,394.

5 Kyle runs 15.62 miles this week. Next week, he wants to set a running goal where the value of the digit 2 is one thousand times greater. He says if he runs 32.75 miles, he will meet his goal.

Describe Kyle's error. What would be a better distance he could set to meet his goal? Explain your thinking.

In Kyle's goal of 32.75, the value of the digit 2 is only 100 times greater than 15.62. A better distance would be 25.67 miles because the value of the 2 is 1,000 times greater.