

2016 Mathematics Standards of Learning
Algebra Readiness Formative Assessment

7.1b

1. Put the following numbers in order from least to greatest.

Least ↓ Greatest	<input type="text"/>	<input type="text" value="9.4 × 10<sup>-3</sup>"/>
	<input type="text"/>	<input type="text" value="2.7 × 10<sup>-4</sup>"/>
	<input type="text"/>	<input type="text" value="1.45 × 10<sup>-3</sup>"/>
	<input type="text"/>	<input type="text" value="8.35 × 10<sup>-5</sup>"/>

2. Write 31 million, 4 hundred and fifty-two thousand in standard form. Then, convert the number into scientific notation.

Standard Form

Scientific Notation

3. Circle all of the numbers that make the inequality statement true.

$$3.5 \times 10^3 < \underline{\hspace{2cm}} < 7.4 \times 10^6$$

1.85×10^4

5.3×10^2

4.12×10^3

6.4×10^7

3.2×10^3

9.87×10^5

7.4×10^4

8.1×10^6

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4. What is 0.00000283 written in scientific notation?

- A. 2.83×10^{-8}
- B. 2.83×10^{-6}
- C. 2.83×10^6
- D. 2.83×10^8

5. Which list of numbers is written in descending order?

- A. $3.29 \times 10^4, 5.2 \times 10^2, 7.1 \times 10^4$
- B. $5.2 \times 10^2, 3.29 \times 10^4, 7.1 \times 10^4$
- C. $7.1 \times 10^4, 5.2 \times 10^2, 3.29 \times 10^4$
- D. $7.1 \times 10^4, 3.29 \times 10^4, 5.2 \times 10^2$