

Name _____

Common Core Standard 8.EE.A.3 – Expressions and Equations

Express the number in standard notation: 4.4391×10^{-8} . Be sure to show your work.

A 0.000 000 044 391

B 0.000 044 391

C 0.000 443 910

D 0.000 004 439 100

Common Core Standard 8.EE.A.3 – Expressions and Equations

Express the number in scientific notation: 46 320 000 000. Be sure to show your work.

A 6×10^8 B 0.6×10^9 C 0.6×10^7 D 6×10^7

Common Core Standard 8.EE.A.3 – Expressions and Equations

Simplify the expression. Write your answer in scientific notation. Be sure to show your work.

$$(0.000\ 000\ 635 - 0.000\ 000\ 009) \times 200$$

A 1.09×10^{-4} B 1.258×10^{-4} C 1.252×10^{-4} D 1.288×10^{-4}

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Common Core Standard 8.EE.A.3 – Expressions and Equations

Which symbol makes the statement true? $7.3 \times 10^{27} ? 5.59 \times 10^{28}$. Be sure to explain your answer.

A >

B <

C \geq D \leq

Common Core Standard 8.EE.A.3 – Expressions and Equations

The population of India is 1.25×10^9 , and the population of Spain is 5×10^7 . How many times greater than Spain's population is the population of India? Be sure to show your work.

A 2.5

B 40

C 4

D 25

Common Core Standard 8.EE.A.3 – Expressions and Equations

The Moon is approximately 2.39×10^5 miles away from the Earth. How far would the Moon be from the Earth if the distance between the two increases by 6? Be sure to show your work.

A 1.434×10^5 B 1.434×10^6 C 1.43×10^5 D 1.43×10^4