

Name _____

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

Which number is larger: 9×10^3 or 6.3×10^5 ? By how many times? Be sure to explain your answer.

A 6.3×10^5 ; 700

B 6.3×10^5 ; 70

C 6.3×10^5 ; 100

D 9×10^3 ; 70

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.

$$6.6 \times 10^6 \div 2 \times 10^7 =$$

A 3.3×10^{13}

B 36.36×10^{-1}

C 3.3×10^{-1}

D 12.12×10^{13}

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

Which symbol makes the statement true? 8×10^{17} ? 9.1×10^{14} . Be sure to show your work.

A $>$

B $<$

C \geq

D \leq

Name _____

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.

$$(4.5 \times 10^3) \times (7.8 \times 10^{-8}) =$$

- A $.351 \times 10^5$
 B 351×10^{-11}
 C 3.51×10^{-4}
 D 35.1×10^{-24}

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

- About 54 million Americans participate in fitness activities. The number of people using a stationary bicycle is 9×10^6 in scientific notation. How many times more people perform physical activities other than on a stationary bicycle? Be sure to show your work.

- A 60
 B 6
 C 45
 D 5

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

- The Hershey Company produces 1.84 million milk chocolate bars and 9.2×10^5 dark chocolate bars in a month. How many times greater are the milk chocolate bars than the dark chocolate bars? What is the total amount of milk and dark chocolate bars produced by the company in a month? Be sure to show your work.

- A $\frac{1}{2}$; 27.6×10^5
 B 2; 2.76×10^6
 C $\frac{1}{2}$; 2.76×10^5
 D 2; 2.76×10^5