



THIRD SPACE
LEARNING

Adding and Subtracting Scientific Notation Worksheet

Algebra

Grades 6 to 8

Skill Questions

Name:

Date:

- 1 What is the value of the expression? Write the answer in scientific notation.
 $(4.56 \times 10^4) + (2.3 \times 10^3)$

Answer

- 2 What is the value of the expression? Write the answer in scientific notation.
 $(1.4 \times 10^5) - (4.67 \times 10^3)$

Answer

- 3 Simplify the expression. Express your answer in scientific notation.
 $(2.65 \times 10^6) - (3.8 \times 10^4)$

Answer

- 4 Simplify the expression. Express your answer in scientific notation.
 $(4.2 \times 10^{-7}) + (2.5 \times 10^{-5})$

Answer

- 5 What is the value of the expression? Write the answer in scientific notation.
 $(5.65 \times 10^{-4}) - (1.7 \times 10^{-5})$

Answer

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- 6 What is the value of the expression? Write the answer in scientific notation.
 $(5.84 \times 10^1) + (6.41 \times 10^4)$

Answer

- 7 Simplify the expression. Express your answer in scientific notation.
 $(7.41 \times 10^5) - (7.8 \times 10^2)$

Answer

- 8 Simplify the expression. Express your answer in scientific notation.
 $(6 \times 10^{-3}) + (2.17 \times 10^{-4})$

Answer

- 9 Evaluate the expression. Write the answer in scientific notation.
 $(0.47 \times 10^4) + (5.2 \times 10^{-1})$

Answer

- 10 Evaluate the expression. Write the answer in scientific notation.
 $(6.9 \times 10^{-3}) - (0.089 \times 10^3)$

Answer

Applied Questions

- 11** Joey's neighbor needed (2.3×10^4) gallons of water to fill their new pool. Joey needed (1.85×10^4) gallons of water to fill his pool. How much more water does Joey's neighbor need? Express the answer in scientific notation.

Answer

- 12** What is the value of n in the expression below?
 $(6.85 \times 10^n) + (1.5 \times 10^3) = (6.8515 \times 10^6)$

Answer

- 13** The population in India is approximately, 1.417×10^9 . The population in the United States is approximately, 3.333×10^8 . How many people are there combined in both countries? Express the answer in scientific notation.

Answer

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- 14** What is the value of x in the expression? Leave your answer in scientific notation.

$$(1.7 \times 10^{-3}) - (5 \times 10^{-5}) = (1.65 \times 10^x)$$

Answer

- 15** There are about 1.6×10^{25} calcium atoms in the human body. There are about 2.5×10^{24} sodium atoms in the human body. How many more calcium atoms are there in the human body? Write the answer in scientific notation.

Answer

Answers

Question number	Question	Answers	Standard
1	What is the value of the expression? Write the answer in scientific notation. $(4.56 \times 10^4) + (2.3 \times 10^3)$	4.79×10^4	8.EE.A.4
2	What is the value of the expression? Write the answer in scientific notation. $(1.4 \times 10^5) - (4.67 \times 10^3)$	1.3533×10^5	8.EE.A.4
3	Simplify the expression. Express your answer in scientific notation. $(2.65 \times 10^6) - (3.8 \times 10^4)$	2.612×10^6	8.EE.A.4
4	Simplify the expression. Express your answer in scientific notation. $(4.2 \times 10^{-7}) + (2.5 \times 10^{-5})$	2.542×10^{-5}	8.EE.A.4
5	What is the value of the expression? Write the answer in scientific notation. $(5.65 \times 10^{-4}) - (1.7 \times 10^{-5})$	5.48×10^{-4}	8.EE.A.4
6	What is the value of the expression? Write the answer in scientific notation. $(5.84 \times 10^1) + (6.41 \times 10^4)$	6.41584×10^4	8.EE.A.4

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Question number	Question	Answers	Standard
7	Simplify the expression. Express your answer in scientific notation. $(7.41 \times 10^5) - (7.8 \times 10^2)$	7.4022×10^5	8.EE.A.4
8	Simplify the expression. Express your answer in scientific notation. $(6 \times 10^{-3}) + (2.17 \times 10^{-4})$	6.217×10^{-3}	8.EE.A.4
9	Evaluate the expression. Write the answer in scientific notation. $(0.47 \times 10^4) + (5.2 \times 10^{-1})$	4.70052×10^3	8.EE.A.4
10	Evaluate the expression. Write the answer in scientific notation. $(6.9 \times 10^{-3}) - (0.089 \times 10^3)$	-8.89931×10^1	8.EE.A.4
11	Joey's neighbor needed (2.3×10^4) gallons of water to fill their new pool. Joey needed (1.85×10^4) gallons of water to fill his pool. How much more water does Joey's neighbor need? Express the answer in scientific notation.	Joey's neighbor needs 4.5×10^3 more gallons of water than Joey.	8.EE.A.4
12	What is the value of n in the expression below? $(6.85 \times 10^n) + (1.5 \times 10^3) = (6.8515 \times 10^6)$	$n = 6$	8.EE.A.4
13	The population in India is approximately, 1.417×10^9 . The population in the United States is approximately, 3.333×10^8 . How many people are there combined in both countries? Express the answer in scientific notation.	1.7503×10^9	8.EE.A.4

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Question number	Question	Answers	Standard
14	What is the value of x in the expression? Leave your answer in scientific notation. $(1.7 \times 10^{-3}) - (5 \times 10^{-5}) = (1.65 \times 10^x)$	$x = -3$	8.EE.A.4
15	There are about 1.6×10^{25} calcium atoms in the human body. There are about 2.5×10^{24} sodium atoms in the human body. How many more calcium atoms are there in the human body? Write the answer in scientific notation.	1.35×10^{25} more atoms of calcium	8.EE.A.4

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