

Scientific Notation | Addition & Subtraction

Simplify each problem and express the answer in scientific notation.

1) $(7 \times 10^8) - (5 \times 10^7)$

$7 \times 10^8 - 0.5 \times 10^8$

6.5×10^8

Make sure exponents are the same before adding or subtracting.

2) $(3 \times 10^4) + (4 \times 10^2)$

$3 \times 10^4 + 0.04 \times 10^4$

3.04×10^4

3) $(6 \times 10^7) + (4 \times 10^9)$

$0.06 \times 10^9 + 4 \times 10^9$

4.06×10^9

It is often easiest to change all expressions to the higher exponent.

4) $(2 \times 10^8) - (5 \times 10^6)$

$2 \times 10^8 - 0.05 \times 10^8$

1.95×10^8

5) $(10 \times 10^9) - (12 \times 10^7)$

$10 \times 10^9 - 0.12 \times 10^9$

9.88×10^9

6) $(2 \times 10^4) + (3 \times 10^5)$

$0.2 \times 10^5 + 3 \times 10^5$

3.2×10^5

7) $(9 \times 10^3) + (6 \times 10^2)$

$9 \times 10^3 + 0.6 \times 10^3$

9.6×10^3

8) $(7 \times 10^6) - (4 \times 10^4)$

$7 \times 10^6 - 0.04 \times 10^6$

6.96×10^6

9) $(4 \times 10^5) - (3 \times 10^4)$

$4 \times 10^5 - 0.3 \times 10^5$

3.7×10^5

10) $(13 \times 10^3) + (11 \times 10^4)$

$1.3 \times 10^4 + 11 \times 10^4$

12.3×10^4

1.23×10^5