



Adding and Subtracting Using Standard Form **Answers**

Evaluate the following, giving your answer as an ordinary number:

1. $5.6 \times 10^{-1} + 1.07 \times 10^{-2} = \mathbf{0.56 + 0.0107 = 0.5707}$
2. $8.1 \times 10^2 - 9.64 \times 10^3 = \mathbf{810 - 9640 = -8830}$
3. $1.25 \times 10^{-1} + 4.1 \times 10^4 = \mathbf{0.125 + 41\,000 = 41\,000.125}$
4. $8.1 \times 10^4 + 2.111 \times 10^3 = \mathbf{81\,000 + 2111 = 83\,111}$
5. $1.7 \times 10^1 + 3.45 \times 10^2 = \mathbf{17 + 345 = 362}$
6. $8.09 \times 10^{-5} - 3.1 \times 10^{-1} = \mathbf{0.0000809 - 0.31 = -0.3099191}$
7. $6.07 \times 10^5 - 8.251 \times 10^{-3} = \mathbf{607\,000 - 0.008251 = 606\,999.991749}$
8. $5.3 \times 10^4 - 2.5 \times 10^{-5} = \mathbf{53\,000 - 0.000025 = 52\,999.999975}$

Evaluate the following, giving your answer in standard form:

1. $1 \times 10^{-1} + 2.6 \times 10^{-2} = \mathbf{0.1 + 0.026 = 0.126}$
 $\mathbf{= 1.26 \times 10^{-1}}$
2. $8.3 \times 10^3 - 2.19 \times 10^3 = \mathbf{8300 - 2190 = 6110}$
 $\mathbf{= 6.11 \times 10^3}$
3. $5.1 \times 10^{-1} + 9 \times 10^{-4} = \mathbf{0.51 + 0.0009 = 0.5109}$
 $\mathbf{= 5.109 \times 10^{-1}}$
4. $4 \times 10^{-5} - 3.1 \times 10^{-4} = \mathbf{0.00004 - 0.00031 = -0.00027}$
 $\mathbf{= -2.7 \times 10^{-4}}$
5. $2.5 \times 10^1 + 8.27 \times 10^3 = \mathbf{25 + 8270 = 8295}$
 $\mathbf{= 8.295 \times 10^3}$
6. $1.04 \times 10^5 - 3.4 \times 10^{-2} = \mathbf{104\,000 - 0.034 = 103\,999.966}$
 $\mathbf{= 1.03999966 \times 10^5}$
7. $4.86 \times 10^4 + 9.17 \times 10^6 = \mathbf{48\,600 + 9\,170\,000 = 9\,218\,600}$
 $\mathbf{= 9.2186 \times 10^6}$
8. $6.2 \times 10^1 - 7.1 \times 10^{-1} = \mathbf{62 - 0.71 = 61.29}$
 $\mathbf{= 6.129 \times 10^1}$