

Numbers in Standard Form (A)

Write the following expanded numbers in standard form.

$$\begin{aligned} 1. & (4 \times 10^{11}) + (4 \times 10^{10}) + (4 \times 10^9) + (6 \times 10^8) + (2 \times 10^7) + \\ & (6 \times 10^6) + (3 \times 10^4) + (7 \times 10^3) + (4 \times 10^2) + \\ & (2 \times 10^1) + (7 \times 10^0) + (7 \times 10^{-1}) + (8 \times 10^{-2}) + (4 \times 10^{-3}) \\ & = \end{aligned}$$

$$\begin{aligned} 2. & (4 \times 10^{11}) + (4 \times 10^{10}) + (6 \times 10^9) + (1 \times 10^8) + (2 \times 10^7) + \\ & (7 \times 10^6) + (3 \times 10^5) + (1 \times 10^3) + (2 \times 10^2) + \\ & (8 \times 10^1) + (9 \times 10^0) + (3 \times 10^{-1}) + (8 \times 10^{-2}) + (4 \times 10^{-3}) \\ & = \end{aligned}$$

$$\begin{aligned} 3. & (4 \times 10^{11}) + (5 \times 10^{10}) + (8 \times 10^9) + (6 \times 10^8) + (7 \times 10^7) + \\ & (2 \times 10^6) + (8 \times 10^5) + (3 \times 10^3) + (5 \times 10^2) + \\ & (6 \times 10^1) + (3 \times 10^0) + (7 \times 10^{-1}) + (6 \times 10^{-2}) + (7 \times 10^{-3}) \\ & = \end{aligned}$$

$$\begin{aligned} 4. & (1 \times 10^{11}) + (1 \times 10^{10}) + (3 \times 10^8) + (1 \times 10^7) + \\ & (9 \times 10^6) + (4 \times 10^5) + (7 \times 10^4) + (7 \times 10^3) + (1 \times 10^2) + \\ & (3 \times 10^1) + (3 \times 10^0) + (8 \times 10^{-1}) + (5 \times 10^{-2}) + (1 \times 10^{-3}) \\ & = \end{aligned}$$

$$\begin{aligned} 5. & (3 \times 10^{11}) + (6 \times 10^{10}) + (6 \times 10^9) + (1 \times 10^8) + (4 \times 10^7) + \\ & (3 \times 10^6) + (7 \times 10^5) + (5 \times 10^4) + (3 \times 10^3) + \\ & (5 \times 10^1) + (2 \times 10^0) + (2 \times 10^{-1}) + (3 \times 10^{-2}) + (3 \times 10^{-3}) \\ & = \end{aligned}$$

$$\begin{aligned} 6. & (9 \times 10^{11}) + (4 \times 10^9) + (8 \times 10^8) + (5 \times 10^7) + \\ & (3 \times 10^6) + (5 \times 10^5) + (3 \times 10^4) + (9 \times 10^3) + (9 \times 10^2) + \\ & (5 \times 10^1) + (6 \times 10^0) + (9 \times 10^{-1}) + (8 \times 10^{-2}) + (2 \times 10^{-3}) \\ & = \end{aligned}$$

Numbers in Standard Form (A) Answers

Write the following expanded numbers in standard form.

$$\begin{aligned} 1. & (4 \times 10^{11}) + (4 \times 10^{10}) + (4 \times 10^9) + (6 \times 10^8) + (2 \times 10^7) + \\ & (6 \times 10^6) + (3 \times 10^4) + (7 \times 10^3) + (4 \times 10^2) + \\ & (2 \times 10^1) + (7 \times 10^0) + (7 \times 10^{-1}) + (8 \times 10^{-2}) + (4 \times 10^{-3}) \\ & = \quad \quad \quad 444,626,037,427.784 \end{aligned}$$

$$\begin{aligned} 2. & (4 \times 10^{11}) + (4 \times 10^{10}) + (6 \times 10^9) + (1 \times 10^8) + (2 \times 10^7) + \\ & (7 \times 10^6) + (3 \times 10^5) + (1 \times 10^3) + (2 \times 10^2) + \\ & (8 \times 10^1) + (9 \times 10^0) + (3 \times 10^{-1}) + (8 \times 10^{-2}) + (4 \times 10^{-3}) \\ & = \quad \quad \quad 446,127,301,289.384 \end{aligned}$$

$$\begin{aligned} 3. & (4 \times 10^{11}) + (5 \times 10^{10}) + (8 \times 10^9) + (6 \times 10^8) + (7 \times 10^7) + \\ & (2 \times 10^6) + (8 \times 10^5) + (3 \times 10^3) + (5 \times 10^2) + \\ & (6 \times 10^1) + (3 \times 10^0) + (7 \times 10^{-1}) + (6 \times 10^{-2}) + (7 \times 10^{-3}) \\ & = \quad \quad \quad 458,672,803,563.767 \end{aligned}$$

$$\begin{aligned} 4. & (1 \times 10^{11}) + (1 \times 10^{10}) + (3 \times 10^8) + (1 \times 10^7) + \\ & (9 \times 10^6) + (4 \times 10^5) + (7 \times 10^4) + (7 \times 10^3) + (1 \times 10^2) + \\ & (3 \times 10^1) + (3 \times 10^0) + (8 \times 10^{-1}) + (5 \times 10^{-2}) + (1 \times 10^{-3}) \\ & = \quad \quad \quad 110,319,477,133.851 \end{aligned}$$

$$\begin{aligned} 5. & (3 \times 10^{11}) + (6 \times 10^{10}) + (6 \times 10^9) + (1 \times 10^8) + (4 \times 10^7) + \\ & (3 \times 10^6) + (7 \times 10^5) + (5 \times 10^4) + (3 \times 10^3) + \\ & (5 \times 10^1) + (2 \times 10^0) + (2 \times 10^{-1}) + (3 \times 10^{-2}) + (3 \times 10^{-3}) \\ & = \quad \quad \quad 366,143,753,052.233 \end{aligned}$$

$$\begin{aligned} 6. & (9 \times 10^{11}) + (4 \times 10^9) + (8 \times 10^8) + (5 \times 10^7) + \\ & (3 \times 10^6) + (5 \times 10^5) + (3 \times 10^4) + (9 \times 10^3) + (9 \times 10^2) + \\ & (5 \times 10^1) + (6 \times 10^0) + (9 \times 10^{-1}) + (8 \times 10^{-2}) + (2 \times 10^{-3}) \\ & = \quad \quad \quad 904,853,539,956.982 \end{aligned}$$