

## Numbers in Expanded Form (E)

Write out the following numbers in expanded form.

1.  $438,889,297,769.164 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2.  $991,720,247,514.876 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3.  $107,105,053,759.373 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4.  $213,773,490,464.513 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5.  $645,231,339,841.627 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6.  $677,992,226,401.515 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7.  $621,230,116,002.711 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8.  $226,741,095,920.868 =$  \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Numbers in Expanded Form (E) Answers

Write out the following numbers in expanded form.

1.  $438,889,297,769.164 = (4 \times 10^{11}) + (3 \times 10^{10}) + (8 \times 10^9) + (8 \times 10^8) + (8 \times 10^7) + (9 \times 10^6) + (2 \times 10^5) + (9 \times 10^4) + (7 \times 10^3) + (7 \times 10^2) + (6 \times 10^1) + (9 \times 10^0) + (1 \times 10^{-1}) + (6 \times 10^{-2}) + (4 \times 10^{-3})$

2.  $991,720,247,514.876 = (9 \times 10^{11}) + (9 \times 10^{10}) + (1 \times 10^9) + (7 \times 10^8) + (2 \times 10^7) + (2 \times 10^5) + (4 \times 10^4) + (7 \times 10^3) + (5 \times 10^2) + (1 \times 10^1) + (4 \times 10^0) + (8 \times 10^{-1}) + (7 \times 10^{-2}) + (6 \times 10^{-3})$

3.  $107,105,053,759.373 = (1 \times 10^{11}) + (7 \times 10^9) + (1 \times 10^8) + (5 \times 10^6) + (5 \times 10^4) + (3 \times 10^3) + (7 \times 10^2) + (5 \times 10^1) + (9 \times 10^0) + (3 \times 10^{-1}) + (7 \times 10^{-2}) + (3 \times 10^{-3})$

4.  $213,773,490,464.513 = (2 \times 10^{11}) + (1 \times 10^{10}) + (3 \times 10^9) + (7 \times 10^8) + (7 \times 10^7) + (3 \times 10^6) + (4 \times 10^5) + (9 \times 10^4) + (4 \times 10^2) + (6 \times 10^1) + (4 \times 10^0) + (5 \times 10^{-1}) + (1 \times 10^{-2}) + (3 \times 10^{-3})$

5.  $645,231,339,841.627 = (6 \times 10^{11}) + (4 \times 10^{10}) + (5 \times 10^9) + (2 \times 10^8) + (3 \times 10^7) + (1 \times 10^6) + (3 \times 10^5) + (3 \times 10^4) + (9 \times 10^3) + (8 \times 10^2) + (4 \times 10^1) + (1 \times 10^0) + (6 \times 10^{-1}) + (2 \times 10^{-2}) + (7 \times 10^{-3})$

6.  $677,992,226,401.515 = (6 \times 10^{11}) + (7 \times 10^{10}) + (7 \times 10^9) + (9 \times 10^8) + (9 \times 10^7) + (2 \times 10^6) + (2 \times 10^5) + (2 \times 10^4) + (6 \times 10^3) + (4 \times 10^2) + (1 \times 10^0) + (5 \times 10^{-1}) + (1 \times 10^{-2}) + (5 \times 10^{-3})$

7.  $621,230,116,002.711 = (6 \times 10^{11}) + (2 \times 10^{10}) + (1 \times 10^9) + (2 \times 10^8) + (3 \times 10^7) + (1 \times 10^5) + (1 \times 10^4) + (6 \times 10^3) + (2 \times 10^0) + (7 \times 10^{-1}) + (1 \times 10^{-2}) + (1 \times 10^{-3})$

8.  $226,741,095,920.868 = (2 \times 10^{11}) + (2 \times 10^{10}) + (6 \times 10^9) + (7 \times 10^8) + (4 \times 10^7) + (1 \times 10^6) + (9 \times 10^4) + (5 \times 10^3) + (9 \times 10^2) + (2 \times 10^1) + (8 \times 10^{-1}) + (6 \times 10^{-2}) + (8 \times 10^{-3})$