

Expanded Exponential Form (F)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 921,707,309
2. 979,566,927
3. 308,018,543
4. 129,059,119
5. 391,837,584
6. 263,153,552
7. 884,953,697
8. 687,920,228
9. 664,208,434
10. 415,852,533

Expanded Exponential Form (F) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 921,707,309

$$(9 \times 10^8) + (2 \times 10^7) + (1 \times 10^6) + (7 \times 10^5) + (7 \times 10^3) + (3 \times 10^2) + (9 \times 10^0)$$

2. 979,566,927

$$(9 \times 10^8) + (7 \times 10^7) + (9 \times 10^6) + (5 \times 10^5) + (6 \times 10^4) + (6 \times 10^3) + (9 \times 10^2) + (2 \times 10^1) + (7 \times 10^0)$$

3. 308,018,543

$$(3 \times 10^8) + (8 \times 10^6) + (1 \times 10^4) + (8 \times 10^3) + (5 \times 10^2) + (4 \times 10^1) + (3 \times 10^0)$$

4. 129,059,119

$$(1 \times 10^8) + (2 \times 10^7) + (9 \times 10^6) + (5 \times 10^4) + (9 \times 10^3) + (1 \times 10^2) + (1 \times 10^1) + (9 \times 10^0)$$

5. 391,837,584

$$(3 \times 10^8) + (9 \times 10^7) + (1 \times 10^6) + (8 \times 10^5) + (3 \times 10^4) + (7 \times 10^3) + (5 \times 10^2) + (8 \times 10^1) + (4 \times 10^0)$$

6. 263,153,552

$$(2 \times 10^8) + (6 \times 10^7) + (3 \times 10^6) + (1 \times 10^5) + (5 \times 10^4) + (3 \times 10^3) + (5 \times 10^2) + (5 \times 10^1) + (2 \times 10^0)$$

7. 884,953,697

$$(8 \times 10^8) + (8 \times 10^7) + (4 \times 10^6) + (9 \times 10^5) + (5 \times 10^4) + (3 \times 10^3) + (6 \times 10^2) + (9 \times 10^1) + (7 \times 10^0)$$

8. 687,920,228

$$(6 \times 10^8) + (8 \times 10^7) + (7 \times 10^6) + (9 \times 10^5) + (2 \times 10^4) + (2 \times 10^2) + (2 \times 10^1) + (8 \times 10^0)$$

9. 664,208,434

$$(6 \times 10^8) + (6 \times 10^7) + (4 \times 10^6) + (2 \times 10^5) + (8 \times 10^3) + (4 \times 10^2) + (3 \times 10^1) + (4 \times 10^0)$$

10. 415,852,533

$$(4 \times 10^8) + (1 \times 10^7) + (5 \times 10^6) + (8 \times 10^5) + (5 \times 10^4) + (2 \times 10^3) + (5 \times 10^2) + (3 \times 10^1) + (3 \times 10^0)$$