

Expanded Exponential Form (I)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 225,896,033
2. 311,035,999
3. 119,067,945
4. 983,819,968
5. 713,849,535
6. 319,219,013
7. 158,195,142
8. 519,604,072
9. 519,311,678
10. 766,097,874

Expanded Exponential Form (I) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 225,896,033

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

2. 311,035,999

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

3. 119,067,945

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

4. 983,819,968

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

5. 713,849,535

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

6. 319,219,013

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

7. 158,195,142

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

8. 519,604,072

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

9. 519,311,678

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

10. 766,097,874

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