

Expanded Exponential Form (A)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 220,732,073

2. 358,837,642

3. 938,118,409

4. 242,418,156

5. 759,480,833

6. 743,276,246

7. 429,700,972

8. 184,454,902

9. 669,713,501

10. 912,917,861

Expanded Exponential Form (A) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 220,732,073

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

2. 358,837,642

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

3. 938,118,409

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

4. 242,418,156

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

5. 759,480,833

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

6. 743,276,246

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

7. 429,700,972

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

8. 184,454,902

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

9. 669,713,501

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

10. 912,917,861

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

Expanded Exponential Form (B)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 360,045,335
2. 358,355,571
3. 761,024,643
4. 872,989,802
5. 824,297,178
6. 882,784,643
7. 250,213,083
8. 600,948,177
9. 506,004,495
10. 741,370,807

Expanded Exponential Form (B) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 360,045,335

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

2. 358,355,571

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

3. 761,024,643

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

4. 872,989,802

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

5. 824,297,178

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

6. 882,784,643

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

7. 250,213,083

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

8. 600,948,177

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

9. 506,004,495

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

10. 741,370,807

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

Expanded Exponential Form (C)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 265,833,583
2. 926,130,702
3. 130,821,843
4. 648,459,948
5. 435,584,829
6. 442,386,470
7. 742,279,712
8. 610,279,742
9. 684,119,199
10. 649,719,442

Expanded Exponential Form (C) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 265,833,583

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

2. 926,130,702

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

3. 130,821,843

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

4. 648,459,948

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

5. 435,584,829

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

6. 442,386,470

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

7. 742,279,712

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

8. 610,279,742

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

9. 684,119,199

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

10. 649,719,442

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

Expanded Exponential Form (D)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 178,211,856
2. 750,430,012
3. 920,768,306
4. 788,753,556
5. 551,797,581
6. 669,316,856
7. 790,060,126
8. 630,614,426
9. 827,369,216
10. 447,167,111

Expanded Exponential Form (D) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 178,211,856

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

2. 750,430,012

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

3. 920,768,306

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

4. 788,753,556

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

5. 551,797,581

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

6. 669,316,856

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

7. 790,060,126

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

8. 630,614,426

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

9. 827,369,216

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

10. 447,167,111

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

Expanded Exponential Form (E)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 417,243,967
2. 411,606,242
3. 406,370,306
4. 770,900,339
5. 804,233,769
6. 178,179,220
7. 755,955,818
8. 831,129,992
9. 701,513,975
10. 614,321,546

Expanded Exponential Form (E) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 417,243,967

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

2. 411,606,242

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

3. 406,370,306

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

4. 770,900,339

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

5. 804,233,769

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

6. 178,179,220

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

7. 755,955,818

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

8. 831,129,992

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

9. 701,513,975

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

10. 614,321,546

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

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

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

Expanded Exponential Form (G)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 147,354,559
2. 237,399,067
3. 135,897,792
4. 295,465,838
5. 855,036,483
6. 901,157,921
7. 932,075,216
8. 965,792,247
9. 166,596,968
10. 857,816,805

Expanded Exponential Form (G) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 147,354,559

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

2. 237,399,067

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

3. 135,897,792

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

4. 295,465,838

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

5. 855,036,483

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

6. 901,157,921

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

7. 932,075,216

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

8. 965,792,247

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

9. 166,596,968

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

10. 857,816,805

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

Expanded Exponential Form (H)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 828,862,598

2. 612,135,984

3. 606,385,526

4. 557,786,991

5. 309,572,107

6. 809,136,709

7. 387,026,201

8. 145,878,229

9. 109,631,474

10. 635,846,570

Expanded Exponential Form (H) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 828,862,598

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

2. 612,135,984

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

3. 606,385,526

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

4. 557,786,991

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

5. 309,572,107

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

6. 809,136,709

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

7. 387,026,201

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

8. 145,878,229

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

9. 109,631,474

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

10. 635,846,570

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

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

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

Expanded Exponential Form (J)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 519,667,421
2. 631,239,141
3. 623,716,480
4. 540,888,645
5. 493,838,786
6. 250,369,260
7. 751,273,003
8. 647,575,833
9. 925,199,424
10. 898,759,142

Expanded Exponential Form (J) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 519,667,421

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

2. 631,239,141

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

3. 623,716,480

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

4. 540,888,645

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

5. 493,838,786

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

6. 250,369,260

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

7. 751,273,003

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

8. 647,575,833

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

9. 925,199,424

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

10. 898,759,142

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