

Expanded Exponential Form (A)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 605,506

2. 817,609

3. 987,938

4. 647,199

5. 194,036

6. 846,417

7. 314,839

8. 868,531

9. 823,438

10. 508,256

Expanded Exponential Form (A) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 605,506

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

2. 817,609

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

3. 987,938

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

4. 647,199

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

5. 194,036

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

6. 846,417

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

7. 314,839

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

8. 868,531

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

9. 823,438

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

10. 508,256

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

Expanded Exponential Form (B)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 988,521
2. 871,244
3. 415,214
4. 327,618
5. 581,284
6. 546,307
7. 973,718
8. 259,191
9. 304,946
10. 792,301

Expanded Exponential Form (B) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 988,521

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

2. 871,244

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

3. 415,214

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

4. 327,618

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

5. 581,284

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

6. 546,307

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

7. 973,718

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

8. 259,191

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

9. 304,946

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

10. 792,301

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

Expanded Exponential Form (C)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 219,510
2. 954,501
3. 761,395
4. 674,237
5. 126,975
6. 882,758
7. 467,986
8. 153,113
9. 671,827
10. 962,135

Expanded Exponential Form (C) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 219,510

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

2. 954,501

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

3. 761,395

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

4. 674,237

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

5. 126,975

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

6. 882,758

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

7. 467,986

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

8. 153,113

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

9. 671,827

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

10. 962,135

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

Expanded Exponential Form (D)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 929,989
2. 901,979
3. 548,870
4. 318,721
5. 468,005
6. 136,073
7. 918,849
8. 136,316
9. 573,514
10. 248,515

Expanded Exponential Form (D) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 929,989

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

2. 901,979

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

3. 548,870

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

4. 318,721

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

5. 468,005

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

6. 136,073

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

7. 918,849

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

8. 136,316

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

9. 573,514

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

10. 248,515

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

Expanded Exponential Form (E)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 992,136

2. 510,182

3. 483,848

4. 438,711

5. 649,666

6. 232,214

7. 110,202

8. 940,502

9. 122,928

10. 359,789

Expanded Exponential Form (E) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 992,136

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

2. 510,182

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

3. 483,848

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

4. 438,711

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

5. 649,666

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

6. 232,214

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

7. 110,202

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

8. 940,502

$$(9 \times 10^5) + (4 \times 10^4) + (5 \times 10^2) + (2 \times 10^0)$$

9. 122,928

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

10. 359,789

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

Expanded Exponential Form (F)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 577,074
2. 377,917
3. 502,912
4. 199,341
5. 154,303
6. 758,443
7. 617,016
8. 197,333
9. 154,546
10. 468,531

Expanded Exponential Form (F) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 577,074

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

2. 377,917

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

3. 502,912

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

4. 199,341

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

5. 154,303

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

6. 758,443

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

7. 617,016

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

8. 197,333

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

9. 154,546

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

10. 468,531

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

Expanded Exponential Form (G)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 724,483

2. 454,801

3. 843,857

4. 988,163

5. 659,987

6. 676,276

7. 865,811

8. 379,823

9. 407,401

10. 997,717

Expanded Exponential Form (G) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 724,483

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

2. 454,801

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

3. 843,857

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

4. 988,163

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

5. 659,987

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

6. 676,276

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

7. 865,811

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

8. 379,823

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

9. 407,401

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

10. 997,717

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

Expanded Exponential Form (H)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 296,731

2. 641,010

3. 873,462

4. 136,418

5. 485,157

6. 607,809

7. 916,174

8. 838,739

9. 214,884

10. 543,081

Expanded Exponential Form (H) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 296,731

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

2. 641,010

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

3. 873,462

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

4. 136,418

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

5. 485,157

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

6. 607,809

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

7. 916,174

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

8. 838,739

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

9. 214,884

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

10. 543,081

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

Expanded Exponential Form (I)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 431,242
2. 288,791
3. 223,791
4. 203,477
5. 872,196
6. 218,345
7. 788,286
8. 353,871
9. 310,061
10. 750,764

Expanded Exponential Form (I) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 431,242

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

2. 288,791

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

3. 223,791

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

4. 203,477

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

5. 872,196

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

6. 218,345

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

7. 788,286

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

8. 353,871

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

9. 310,061

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

10. 750,764

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

Expanded Exponential Form (J)

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 652,135

2. 198,136

3. 231,551

4. 994,270

5. 392,309

6. 655,719

7. 155,823

8. 283,683

9. 575,936

10. 129,769

Expanded Exponential Form (J) Answers

Name: _____

Date: _____

Convert each standard form number to expanded exponential form.

1. 652,135

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

2. 198,136

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

3. 231,551

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

4. 994,270

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

5. 392,309

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

6. 655,719

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

7. 155,823

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

8. 283,683

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

9. 575,936

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

10. 129,769

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