

Expanded Exponential Form With Decimals (A)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 4.950796

2. 6.160593

3. 8.197473

4. 8.393428

5. 2.212194

6. 4.150438

7. 7.627447

8. 2.231971

9. 1.651447

10. 8.446146

Expanded Exponential Form With Decimals (A) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **4.950796**

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

2. **6.160593**

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

3. **8.197473**

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

4. **8.393428**

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

5. **2.212194**

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

6. **4.150438**

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

7. **7.627447**

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

8. **2.231971**

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

9. **1.651447**

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

10. **8.446146**

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

Expanded Exponential Form With Decimals (B)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 8.492772

2. 8.399887

3. 9.202703

4. 1.564012

5. 2.612581

6. 8.371658

7. 4.918262

8. 3.379654

9. 6.073069

10. 2.178539

Expanded Exponential Form With Decimals (B) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **8.492772**

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

2. **8.399887**

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

3. **9.202703**

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

4. **1.564012**

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

5. **2.612581**

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

6. **8.371658**

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

7. **4.918262**

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

8. **3.379654**

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

9. **6.073069**

$$(6 \times 10^0) + (7 \times 10^{-2}) + (3 \times 10^{-3}) + (6 \times 10^{-5}) + (9 \times 10^{-6})$$

10. **2.178539**

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

Expanded Exponential Form With Decimals (C)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 3.393948

2. 5.868908

3. 1.133531

4. 6.477025

5. 9.154604

6. 3.465898

7. 6.438704

8. 3.652744

9. 4.927946

10. 2.387142

Expanded Exponential Form With Decimals (C) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **3.393948**

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

2. **5.868908**

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

3. **1.133531**

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

4. **6.477025**

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

5. **9.154604**

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

6. **3.465898**

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

7. **6.438704**

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

8. **3.652744**

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

9. **4.927946**

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

10. **2.387142**

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

Expanded Exponential Form With Decimals (D)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 2.820455
2. 2.052314
3. 7.885169
4. 6.319464
5. 3.179157
6. 2.116823
7. 6.863156
8. 8.464953
9. 5.293729
10. 4.598958

Expanded Exponential Form With Decimals (D) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **2.820455**

$$(2 \times 10^0) + (8 \times 10^{-1}) + (2 \times 10^{-2}) + (4 \times 10^{-4}) + (5 \times 10^{-5}) + (5 \times 10^{-6})$$

2. **2.052314**

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

3. **7.885169**

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

4. **6.319464**

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

5. **3.179157**

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

6. **2.116823**

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

7. **6.863156**

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

8. **8.464953**

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

9. **5.293729**

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

10. **4.598958**

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

Expanded Exponential Form With Decimals (E)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 5.331628
2. 3.534923
3. 9.724395
4. 9.819957
5. 4.836625
6. 2.701662
7. 4.945851
8. 7.038608
9. 8.688621
10. 8.248132

Expanded Exponential Form With Decimals (E) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **5.331628**

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

2. **3.534923**

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

3. **9.724395**

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

4. **9.819957**

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

5. **4.836625**

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

6. **2.701662**

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

7. **4.945851**

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

8. **7.038608**

$$(7 \times 10^0) + (3 \times 10^{-2}) + (8 \times 10^{-3}) + (6 \times 10^{-4}) + (8 \times 10^{-6})$$

9. **8.688621**

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

10. **8.248132**

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

Expanded Exponential Form With Decimals (F)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 7.794726

2. 9.906042

3. 4.087271

4. 9.138596

5. 1.987024

6. 5.192711

7. 6.445962

8. 1.529866

9. 1.794712

10. 8.090572

Expanded Exponential Form With Decimals (F) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **7.794726**

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

2. **9.906042**

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

3. **4.087271**

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

4. **9.138596**

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

5. **1.987024**

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

6. **5.192711**

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

7. **6.445962**

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

8. **1.529866**

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

9. **1.794712**

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

10. **8.090572**

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

Expanded Exponential Form With Decimals (G)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 9.782845

2. 4.737923

3. 6.897582

4. 9.462241

5. 8.073984

6. 7.053936

7. 9.909673

8. 8.249912

9. 9.915244

10. 7.970195

Expanded Exponential Form With Decimals (G) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **9.782845**

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

2. **4.737923**

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

3. **6.897582**

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

4. **9.462241**

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

5. **8.073984**

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

6. **7.053936**

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

7. **9.909673**

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

8. **8.249912**

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

9. **9.915244**

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

10. **7.970195**

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

Expanded Exponential Form With Decimals (H)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 9.343779
2. 5.115824
3. 5.537697
4. 1.991175
5. 6.553944
6. 7.201708
7. 5.353397
8. 1.514352
9. 6.993594
10. 5.056426

Expanded Exponential Form With Decimals (H) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **9.343779**

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

2. **5.115824**

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

3. **5.537697**

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

4. **1.991175**

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

5. **6.553944**

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

6. **7.201708**

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

7. **5.353397**

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

8. **1.514352**

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

9. **6.993594**

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

10. **5.056426**

$$(5 \times 10^0) + (5 \times 10^{-2}) + (6 \times 10^{-3}) + (4 \times 10^{-4}) + (2 \times 10^{-5}) + (6 \times 10^{-6})$$

Expanded Exponential Form With Decimals (I)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 7.774624

2. 5.673086

3. 8.446084

4. 7.865338

5. 8.322038

6. 9.013957

7. 4.352148

8. 5.863231

9. 2.012131

10. 5.379104

Expanded Exponential Form With Decimals (I) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **7.774624**

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

2. **5.673086**

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

3. **8.446084**

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

4. **7.865338**

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

5. **8.322038**

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

6. **9.013957**

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

7. **4.352148**

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

8. **5.863231**

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

9. **2.012131**

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

10. **5.379104**

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

Expanded Exponential Form With Decimals (J)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 5.722488

2. 8.410073

3. 8.776197

4. 6.853416

5. 8.187509

6. 4.832184

7. 1.708009

8. 6.608193

9. 4.034777

10. 5.809702

Expanded Exponential Form With Decimals (J) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **5.722488**

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

2. **8.410073**

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

3. **8.776197**

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

4. **6.853416**

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

5. **8.187509**

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

6. **4.832184**

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

7. **1.708009**

$$(1 \times 10^0) + (7 \times 10^{-1}) + (8 \times 10^{-3}) + (9 \times 10^{-6})$$

8. **6.608193**

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

9. **4.034777**

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

10. **5.809702**

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