

## Expanded Exponential Form With Decimals (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 2.827

2. 4.401

3. 7.872

4. 6.504

5. 1.578

6. 9.894

7. 6.223

8. 2.559

9. 7.289

10. 2.646

## Expanded Exponential Form With Decimals (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **2.827**

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

2. **4.401**

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

3. **7.872**

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

4. **6.504**

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

5. **1.578**

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

6. **9.894**

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

7. **6.223**

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

8. **2.559**

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

9. **7.289**

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

10. **2.646**

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

## Expanded Exponential Form With Decimals (B)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 9.628

2. 8.825

3. 3.955

4. 7.406

5. 9.756

6. 2.077

7. 3.232

8. 8.021

9. 3.256

10. 3.854

## Expanded Exponential Form With Decimals (B) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **9.628**

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

2. **8.825**

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

3. **3.955**

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

4. **7.406**

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

5. **9.756**

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

6. **2.077**

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

7. **3.232**

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

8. **8.021**

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

9. **3.256**

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

10. **3.854**

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

## Expanded Exponential Form With Decimals (C)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 5.955

2. 9.205

3. 3.426

4. 6.069

5. 2.929

6. 1.097

7. 7.234

8. 9.657

9. 2.567

10. 6.561

## Expanded Exponential Form With Decimals (C) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **5.955**

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

2. **9.205**

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

3. **3.426**

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

4. **6.069**

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

5. **2.929**

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

6. **1.097**

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

7. **7.234**

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

8. **9.657**

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

9. **2.567**

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

10. **6.561**

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

## Expanded Exponential Form With Decimals (D)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 3.329

2. 8.174

3. 4.302

4. 8.489

5. 5.775

6. 1.856

7. 7.627

8. 9.891

9. 3.891

10. 8.968

## Expanded Exponential Form With Decimals (D) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **3.329**

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

2. **8.174**

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

3. **4.302**

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

4. **8.489**

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

5. **5.775**

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

6. **1.856**

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

7. **7.627**

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

8. **9.891**

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

9. **3.891**

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

10. **8.968**

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



## Expanded Exponential Form With Decimals (E)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 8.467

2. 2.843

3. 5.066

4. 2.615

5. 3.844

6. 2.526

7. 1.901

8. 8.849

9. 2.946

10. 6.991

## Expanded Exponential Form With Decimals (E) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **8.467**

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

2. **2.843**

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

3. **5.066**

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

4. **2.615**

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

5. **3.844**

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

6. **2.526**

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

7. **1.901**

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

8. **8.849**

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

9. **2.946**

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

10. **6.991**

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

## Expanded Exponential Form With Decimals (F)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 8.483

2. 1.582

3. 8.494

4. 5.503

5. 7.306

6. 7.921

7. 9.316

8. 1.668

9. 9.872

10. 5.675

## Expanded Exponential Form With Decimals (F) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **8.483**

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

2. **1.582**

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

3. **8.494**

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

4. **5.503**

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

5. **7.306**

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

6. **7.921**

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

7. **9.316**

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

8. **1.668**

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

9. **9.872**

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

10. **5.675**

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

## Expanded Exponential Form With Decimals (G)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 8.446

2. 7.066

3. 3.968

4. 6.161

5. 4.027

6. 6.873

7. 2.162

8. 8.906

9. 5.527

10. 7.511

## Expanded Exponential Form With Decimals (G) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **8.446**

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

2. **7.066**

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

3. **3.968**

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

4. **6.161**

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

5. **4.027**

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

6. **6.873**

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

7. **2.162**

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

8. **8.906**

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

9. **5.527**

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

10. **7.511**

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

## Expanded Exponential Form With Decimals (H)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 4.073

2. 6.182

3. 9.879

4. 9.566

5. 9.169

6. 7.273

7. 2.883

8. 1.766

9. 7.679

10. 1.483

## Expanded Exponential Form With Decimals (H) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **4.073**

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

2. **6.182**

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

3. **9.879**

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

4. **9.566**

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

5. **9.169**

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

6. **7.273**

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

7. **2.883**

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

8. **1.766**

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

9. **7.679**

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

10. **1.483**

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



# Expanded Exponential Form With Decimals (I)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 9.845

2. 7.672

3. 6.943

4. 7.371

5. 1.858

6. 3.349

7. 3.546

8. 2.066

9. 6.268

10. 1.305

## Expanded Exponential Form With Decimals (I) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **9.845**

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

2. **7.672**

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

3. **6.943**

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

4. **7.371**

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

5. **1.858**

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

6. **3.349**

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

7. **3.546**

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

8. **2.066**

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

9. **6.268**

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

10. **1.305**

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

## Expanded Exponential Form With Decimals (J)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 1.171

2. 4.314

3. 7.448

4. 1.514

5. 1.059

6. 8.846

7. 7.579

8. 5.009

9. 8.957

10. 1.042

## Expanded Exponential Form With Decimals (J) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **1.171**

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

2. **4.314**

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

3. **7.448**

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

4. **1.514**

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

5. **1.059**

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

6. **8.846**

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

7. **7.579**

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

8. **5.009**

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

9. **8.957**

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

10. **1.042**

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