

## Expanded Factors Form With Decimals (A)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 6.36144401
2. 8.40585022
3. 4.67968552
4. 7.34069239
5. 6.14951929
6. 7.36578647
7. 2.33282865
8. 3.99063217
9. 3.98914449
10. 6.20329048

# Expanded Factors Form With Decimals (A) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **6.36144401**

$$(6 \times 1) + (3 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (4 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{100,000,000})$$

2. **8.40585022**

$$(8 \times 1) + (4 \times \frac{1}{10}) + (5 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (2 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

3. **4.67968552**

$$(4 \times 1) + (6 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

4. **7.34069239**

$$(7 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (6 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

5. **6.14951929**

$$(6 \times 1) + (1 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

6. **7.36578647**

$$(7 \times 1) + (3 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

7. **2.33282865**

$$(2 \times 1) + (3 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

8. **3.99063217**

$$(3 \times 1) + (9 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (6 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

9. **3.98914449**

$$(3 \times 1) + (9 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

10. **6.20329048**

$$(6 \times 1) + (2 \times \frac{1}{10}) + (3 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (4 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

## Expanded Factors Form With Decimals (B)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 8.65285561
2. 5.59908102
3. 4.99877801
4. 1.05595577
5. 5.88095182
6. 8.44467824
7. 9.10601584
8. 2.20015224
9. 5.24473458
10. 7.52025361

# Expanded Factors Form With Decimals (B) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **8.65285561**

$$(8 \times 1) + (6 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

2. **5.59908102**

$$(5 \times 1) + (5 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (8 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{100,000,000})$$

3. **4.99877801**

$$(4 \times 1) + (9 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{100,000,000})$$

4. **1.05595577**

$$(1 \times 1) + (5 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

5. **5.88095182**

$$(5 \times 1) + (8 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (9 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (8 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

6. **8.44467824**

$$(8 \times 1) + (4 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

7. **9.10601584**

$$(9 \times 1) + (1 \times \frac{1}{10}) + (6 \times \frac{1}{1000}) + (1 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (8 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

8. **2.20015224**

$$(2 \times 1) + (2 \times \frac{1}{10}) + (1 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

9. **5.24473458**

$$(5 \times 1) + (2 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

10. **7.52025361**

$$(7 \times 1) + (5 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (2 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

## Expanded Factors Form With Decimals (C)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 2.31640253

2. 8.20160043

3. 9.14139743

4. 4.11233757

5. 4.08825889

6. 1.28969053

7. 3.82898462

8. 7.98190239

9. 3.52150255

10. 8.01384973

## Expanded Factors Form With Decimals (C) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **2.31640253**

$$(2 \times 1) + (3 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (4 \times \frac{1}{10,000}) + (2 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

2. **8.20160043**

$$(8 \times 1) + (2 \times \frac{1}{10}) + (1 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (4 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

3. **9.14139743**

$$(9 \times 1) + (1 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (3 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

4. **4.11233757**

$$(4 \times 1) + (1 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (3 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

5. **4.08825889**

$$(4 \times 1) + (8 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (8 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

6. **1.28969053**

$$(1 \times 1) + (2 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (5 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

7. **3.82898462**

$$(3 \times 1) + (8 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

8. **7.98190239**

$$(7 \times 1) + (9 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (2 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

9. **3.52150255**

$$(3 \times 1) + (5 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (2 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

10. **8.01384973**

$$(8 \times 1) + (1 \times \frac{1}{100}) + (3 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

## Expanded Factors Form With Decimals (D)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 7.70218575

2. 5.19531532

3. 6.99723176

4. 8.61958771

5. 9.94074658

6. 8.67112978

7. 1.85703767

8. 9.13099675

9. 2.90674116

10. 6.07636315

# Expanded Factors Form With Decimals (D) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **7.70218575**

$$(7 \times 1) + (7 \times \frac{1}{10}) + (2 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

2. **5.19531532**

$$(5 \times 1) + (1 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (3 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

3. **6.99723176**

$$(6 \times 1) + (9 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (7 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (6 \times \frac{1}{100,000,000})$$

4. **8.61958771**

$$(8 \times 1) + (6 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

5. **9.94074658**

$$(9 \times 1) + (9 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (7 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

6. **8.67112978**

$$(8 \times 1) + (6 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

7. **1.85703767**

$$(1 \times 1) + (8 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (7 \times \frac{1}{1000}) + (3 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

8. **9.13099675**

$$(9 \times 1) + (1 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (9 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

9. **2.90674116**

$$(2 \times 1) + (9 \times \frac{1}{10}) + (6 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (6 \times \frac{1}{100,000,000})$$

10. **6.07636315**

$$(6 \times 1) + (7 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (3 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$



## Expanded Factors Form With Decimals (E)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 8.16893026

2. 4.25574335

3. 8.45976716

4. 4.19362557

5. 4.49499096

6. 6.65263094

7. 9.83386751

8. 2.38508658

9. 8.62423214

10. 2.81814489

# Expanded Factors Form With Decimals (E) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **8.16893026**

$$(8 \times 1) + (1 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{100,000,000})$$

2. **4.25574335**

$$(4 \times 1) + (2 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

3. **8.45976716**

$$(8 \times 1) + (4 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (6 \times \frac{1}{100,000,000})$$

4. **4.19362557**

$$(4 \times 1) + (1 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (3 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

5. **4.49499096**

$$(4 \times 1) + (4 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{100,000,000})$$

6. **6.65263094**

$$(6 \times 1) + (6 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{100,000,000})$$

7. **9.83386751**

$$(9 \times 1) + (8 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (3 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

8. **2.38508658**

$$(2 \times 1) + (3 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (8 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

9. **8.62423214**

$$(8 \times 1) + (6 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

10. **2.81814489**

$$(2 \times 1) + (8 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (8 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

## Expanded Factors Form With Decimals (F)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 5.57396598

2. 9.07253248

3. 1.34682474

4. 8.18775867

5. 8.02045539

6. 3.74989947

7. 9.60698802

8. 4.55009678

9. 4.63245973

10. 7.93114405

# Expanded Factors Form With Decimals (F) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **5.57396598**

$$(5 \times 1) + (5 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (3 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (9 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

2. **9.07253248**

$$(9 \times 1) + (7 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

3. **1.34682474**

$$(1 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

4. **8.18775867**

$$(8 \times 1) + (1 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (7 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

5. **8.02045539**

$$(8 \times 1) + (2 \times \frac{1}{100}) + (4 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

6. **3.74989947**

$$(3 \times 1) + (7 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

7. **9.60698802**

$$(9 \times 1) + (6 \times \frac{1}{10}) + (6 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{100,000,000})$$

8. **4.55009678**

$$(4 \times 1) + (5 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (9 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

9. **4.63245973**

$$(4 \times 1) + (6 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (4 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

10. **7.93114405**

$$(7 \times 1) + (9 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{100,000,000})$$

## Expanded Factors Form With Decimals (G)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 2.61941514
2. 3.07513353
3. 5.93881391
4. 2.68600271
5. 8.59988864
6. 5.41504942
7. 3.30074802
8. 1.15491752
9. 2.34214309
10. 5.57201557

# Expanded Factors Form With Decimals (G) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **2.61941514**

$$(2 \times 1) + (6 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (4 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

2. **3.07513353**

$$(3 \times 1) + (7 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

3. **5.93881391**

$$(5 \times 1) + (9 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (9 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

4. **2.68600271**

$$(2 \times 1) + (6 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (2 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

5. **8.59988864**

$$(8 \times 1) + (5 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

6. **5.41504942**

$$(5 \times 1) + (4 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (4 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

7. **3.30074802**

$$(3 \times 1) + (3 \times \frac{1}{10}) + (7 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{100,000,000})$$

8. **1.15491752**

$$(1 \times 1) + (1 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

9. **2.34214309**

$$(2 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (9 \times \frac{1}{100,000,000})$$

10. **5.57201557**

$$(5 \times 1) + (5 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (1 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

## Expanded Factors Form With Decimals (H)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 1.30530021

2. 1.89957201

3. 2.20263733

4. 9.46504932

5. 5.31885229

6. 8.37987165

7. 8.12450786

8. 8.75897557

9. 5.68911155

10. 4.94997692

# Expanded Factors Form With Decimals (H) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **1.30530021**

$$(1 \times 1) + (3 \times \frac{1}{10}) + (5 \times \frac{1}{1000}) + (3 \times \frac{1}{10,000}) + (2 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

2. **1.89957201**

$$(1 \times 1) + (8 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{100,000,000})$$

3. **2.20263733**

$$(2 \times 1) + (2 \times \frac{1}{10}) + (2 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

4. **9.46504932**

$$(9 \times 1) + (4 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (4 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

5. **5.31885229**

$$(5 \times 1) + (3 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

6. **8.37987165**

$$(8 \times 1) + (3 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

7. **8.12450786**

$$(8 \times 1) + (1 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (8 \times \frac{1}{10,000,000}) + (6 \times \frac{1}{100,000,000})$$

8. **8.75897557**

$$(8 \times 1) + (7 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

9. **5.68911155**

$$(5 \times 1) + (6 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

10. **4.94997692**

$$(4 \times 1) + (9 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (9 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$



## Expanded Factors Form With Decimals (I)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 9.62299499
2. 9.47225249
3. 4.36850128
4. 1.35654128
5. 2.29456014
6. 7.30499722
7. 6.13408155
8. 5.05256056
9. 1.61226681
10. 2.77269359

# Expanded Factors Form With Decimals (I) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **9.62299499**

$$(9 \times 1) + (6 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (9 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

2. **9.47225249**

$$(9 \times 1) + (4 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

3. **4.36850128**

$$(4 \times 1) + (3 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (1 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

4. **1.35654128**

$$(1 \times 1) + (3 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

5. **2.29456014**

$$(2 \times 1) + (2 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{100,000,000})$$

6. **7.30499722**

$$(7 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

7. **6.13408155**

$$(6 \times 1) + (1 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (8 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

8. **5.05256056**

$$(5 \times 1) + (5 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{100,000,000})$$

9. **1.61226681**

$$(1 \times 1) + (6 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (8 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

10. **2.77269359**

$$(2 \times 1) + (7 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

## Expanded Factors Form With Decimals (J)

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. 2.24414875
2. 2.98822148
3. 8.25767411
4. 5.11864572
5. 8.23690756
6. 5.08926228
7. 5.99623218
8. 9.42272664
9. 8.80606593
10. 4.77274009

# Expanded Factors Form With Decimals (J) Answers

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

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

Convert each standard form decimal number to expanded factors form using fractions.

1. **2.24414875**

$$(2 \times 1) + (2 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (4 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

2. **2.98822148**

$$(2 \times 1) + (9 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

3. **8.25767411**

$$(8 \times 1) + (2 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (7 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (1 \times \frac{1}{100,000,000})$$

4. **5.11864572**

$$(5 \times 1) + (1 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

5. **8.23690756**

$$(8 \times 1) + (2 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (7 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000})$$

6. **5.08926228**

$$(5 \times 1) + (8 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

7. **5.99623218**

$$(5 \times 1) + (9 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$

8. **9.42272664**

$$(9 \times 1) + (4 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

9. **8.80606593**

$$(8 \times 1) + (8 \times \frac{1}{10}) + (6 \times \frac{1}{1000}) + (6 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (9 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000})$$

10. **4.77274009**

$$(4 \times 1) + (7 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (9 \times \frac{1}{100,000,000})$$