

Expanded Factors Form With Decimals (A)

Name: _____

Date: _____

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

1. 7.2981

2. 7.8206

3. 3.0547

4. 3.7407

5. 4.4327

6. 2.3219

7. 5.9219

8. 8.5831

9. 8.1987

10. 9.1266

Expanded Factors Form With Decimals (A) Answers

Name: _____

Date: _____

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

1. **7.2981**

$$(7 \times 1) + (2 \times 0.1) + (9 \times 0.01) + (8 \times 0.001) + (1 \times 0.0001)$$

2. **7.8206**

$$(7 \times 1) + (8 \times 0.1) + (2 \times 0.01) + (6 \times 0.0001)$$

3. **3.0547**

$$(3 \times 1) + (5 \times 0.01) + (4 \times 0.001) + (7 \times 0.0001)$$

4. **3.7407**

$$(3 \times 1) + (7 \times 0.1) + (4 \times 0.01) + (7 \times 0.0001)$$

5. **4.4327**

$$(4 \times 1) + (4 \times 0.1) + (3 \times 0.01) + (2 \times 0.001) + (7 \times 0.0001)$$

6. **2.3219**

$$(2 \times 1) + (3 \times 0.1) + (2 \times 0.01) + (1 \times 0.001) + (9 \times 0.0001)$$

7. **5.9219**

$$(5 \times 1) + (9 \times 0.1) + (2 \times 0.01) + (1 \times 0.001) + (9 \times 0.0001)$$

8. **8.5831**

$$(8 \times 1) + (5 \times 0.1) + (8 \times 0.01) + (3 \times 0.001) + (1 \times 0.0001)$$

9. **8.1987**

$$(8 \times 1) + (1 \times 0.1) + (9 \times 0.01) + (8 \times 0.001) + (7 \times 0.0001)$$

10. **9.1266**

$$(9 \times 1) + (1 \times 0.1) + (2 \times 0.01) + (6 \times 0.001) + (6 \times 0.0001)$$

Expanded Factors Form With Decimals (B)

Name: _____

Date: _____

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

1. 9.0248

2. 7.7433

3. 3.9174

4. 8.9733

5. 8.9227

6. 1.7233

7. 1.2484

8. 6.9584

9. 5.0229

10. 6.8445

Expanded Factors Form With Decimals (B) Answers

Name: _____

Date: _____

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

1. **9.0248**

$$(9 \times 1) + (2 \times 0.01) + (4 \times 0.001) + (8 \times 0.0001)$$

2. **7.7433**

$$(7 \times 1) + (7 \times 0.1) + (4 \times 0.01) + (3 \times 0.001) + (3 \times 0.0001)$$

3. **3.9174**

$$(3 \times 1) + (9 \times 0.1) + (1 \times 0.01) + (7 \times 0.001) + (4 \times 0.0001)$$

4. **8.9733**

$$(8 \times 1) + (9 \times 0.1) + (7 \times 0.01) + (3 \times 0.001) + (3 \times 0.0001)$$

5. **8.9227**

$$(8 \times 1) + (9 \times 0.1) + (2 \times 0.01) + (2 \times 0.001) + (7 \times 0.0001)$$

6. **1.7233**

$$(1 \times 1) + (7 \times 0.1) + (2 \times 0.01) + (3 \times 0.001) + (3 \times 0.0001)$$

7. **1.2484**

$$(1 \times 1) + (2 \times 0.1) + (4 \times 0.01) + (8 \times 0.001) + (4 \times 0.0001)$$

8. **6.9584**

$$(6 \times 1) + (9 \times 0.1) + (5 \times 0.01) + (8 \times 0.001) + (4 \times 0.0001)$$

9. **5.0229**

$$(5 \times 1) + (2 \times 0.01) + (2 \times 0.001) + (9 \times 0.0001)$$

10. **6.8445**

$$(6 \times 1) + (8 \times 0.1) + (4 \times 0.01) + (4 \times 0.001) + (5 \times 0.0001)$$

Expanded Factors Form With Decimals (C)

Name: _____

Date: _____

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

1. 5.0709

2. 3.9972

3. 1.1705

4. 8.3331

5. 2.2433

6. 7.1418

7. 8.0289

8. 2.1279

9. 5.6529

10. 4.0934

Expanded Factors Form With Decimals (C) Answers

Name: _____

Date: _____

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

1. **5.0709**

$$(5 \times 1) + (7 \times 0.01) + (9 \times 0.0001)$$

2. **3.9972**

$$(3 \times 1) + (9 \times 0.1) + (9 \times 0.01) + (7 \times 0.001) + (2 \times 0.0001)$$

3. **1.1705**

$$(1 \times 1) + (1 \times 0.1) + (7 \times 0.01) + (5 \times 0.0001)$$

4. **8.3331**

$$(8 \times 1) + (3 \times 0.1) + (3 \times 0.01) + (3 \times 0.001) + (1 \times 0.0001)$$

5. **2.2433**

$$(2 \times 1) + (2 \times 0.1) + (4 \times 0.01) + (3 \times 0.001) + (3 \times 0.0001)$$

6. **7.1418**

$$(7 \times 1) + (1 \times 0.1) + (4 \times 0.01) + (1 \times 0.001) + (8 \times 0.0001)$$

7. **8.0289**

$$(8 \times 1) + (2 \times 0.01) + (8 \times 0.001) + (9 \times 0.0001)$$

8. **2.1279**

$$(2 \times 1) + (1 \times 0.1) + (2 \times 0.01) + (7 \times 0.001) + (9 \times 0.0001)$$

9. **5.6529**

$$(5 \times 1) + (6 \times 0.1) + (5 \times 0.01) + (2 \times 0.001) + (9 \times 0.0001)$$

10. **4.0934**

$$(4 \times 1) + (9 \times 0.01) + (3 \times 0.001) + (4 \times 0.0001)$$

Expanded Factors Form With Decimals (D)

Name: _____

Date: _____

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

1. 8.7165

2. 6.3785

3. 7.8917

4. 1.3518

5. 3.5844

6. 2.1765

7. 9.1117

8. 2.4628

9. 1.1598

10. 5.2145

Expanded Factors Form With Decimals (D) Answers

Name: _____

Date: _____

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

1. **8.7165**

$$(8 \times 1) + (7 \times 0.1) + (1 \times 0.01) + (6 \times 0.001) + (5 \times 0.0001)$$

2. **6.3785**

$$(6 \times 1) + (3 \times 0.1) + (7 \times 0.01) + (8 \times 0.001) + (5 \times 0.0001)$$

3. **7.8917**

$$(7 \times 1) + (8 \times 0.1) + (9 \times 0.01) + (1 \times 0.001) + (7 \times 0.0001)$$

4. **1.3518**

$$(1 \times 1) + (3 \times 0.1) + (5 \times 0.01) + (1 \times 0.001) + (8 \times 0.0001)$$

5. **3.5844**

$$(3 \times 1) + (5 \times 0.1) + (8 \times 0.01) + (4 \times 0.001) + (4 \times 0.0001)$$

6. **2.1765**

$$(2 \times 1) + (1 \times 0.1) + (7 \times 0.01) + (6 \times 0.001) + (5 \times 0.0001)$$

7. **9.1117**

$$(9 \times 1) + (1 \times 0.1) + (1 \times 0.01) + (1 \times 0.001) + (7 \times 0.0001)$$

8. **2.4628**

$$(2 \times 1) + (4 \times 0.1) + (6 \times 0.01) + (2 \times 0.001) + (8 \times 0.0001)$$

9. **1.1598**

$$(1 \times 1) + (1 \times 0.1) + (5 \times 0.01) + (9 \times 0.001) + (8 \times 0.0001)$$

10. **5.2145**

$$(5 \times 1) + (2 \times 0.1) + (1 \times 0.01) + (4 \times 0.001) + (5 \times 0.0001)$$

Expanded Factors Form With Decimals (E)

Name: _____

Date: _____

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

1. 9.7892

2. 8.4218

3. 2.0596

4. 5.1826

5. 9.8008

6. 2.1152

7. 8.4959

8. 5.2086

9. 6.4597

10. 9.9587

Expanded Factors Form With Decimals (E) Answers

Name: _____

Date: _____

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

1. **9.7892**

$$(9 \times 1) + (7 \times 0.1) + (8 \times 0.01) + (9 \times 0.001) + (2 \times 0.0001)$$

2. **8.4218**

$$(8 \times 1) + (4 \times 0.1) + (2 \times 0.01) + (1 \times 0.001) + (8 \times 0.0001)$$

3. **2.0596**

$$(2 \times 1) + (5 \times 0.01) + (9 \times 0.001) + (6 \times 0.0001)$$

4. **5.1826**

$$(5 \times 1) + (1 \times 0.1) + (8 \times 0.01) + (2 \times 0.001) + (6 \times 0.0001)$$

5. **9.8008**

$$(9 \times 1) + (8 \times 0.1) + (8 \times 0.0001)$$

6. **2.1152**

$$(2 \times 1) + (1 \times 0.1) + (1 \times 0.01) + (5 \times 0.001) + (2 \times 0.0001)$$

7. **8.4959**

$$(8 \times 1) + (4 \times 0.1) + (9 \times 0.01) + (5 \times 0.001) + (9 \times 0.0001)$$

8. **5.2086**

$$(5 \times 1) + (2 \times 0.1) + (8 \times 0.001) + (6 \times 0.0001)$$

9. **6.4597**

$$(6 \times 1) + (4 \times 0.1) + (5 \times 0.01) + (9 \times 0.001) + (7 \times 0.0001)$$

10. **9.9587**

$$(9 \times 1) + (9 \times 0.1) + (5 \times 0.01) + (8 \times 0.001) + (7 \times 0.0001)$$

Expanded Factors Form With Decimals (F)

Name: _____

Date: _____

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

1. 6.0396

2. 4.9281

3. 6.2875

4. 5.3597

5. 3.7427

6. 8.3473

7. 9.0239

8. 5.3678

9. 9.3519

10. 4.4797

Expanded Factors Form With Decimals (F) Answers

Name: _____

Date: _____

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

1. **6.0396**

$$(6 \times 1) + (3 \times 0.01) + (9 \times 0.001) + (6 \times 0.0001)$$

2. **4.9281**

$$(4 \times 1) + (9 \times 0.1) + (2 \times 0.01) + (8 \times 0.001) + (1 \times 0.0001)$$

3. **6.2875**

$$(6 \times 1) + (2 \times 0.1) + (8 \times 0.01) + (7 \times 0.001) + (5 \times 0.0001)$$

4. **5.3597**

$$(5 \times 1) + (3 \times 0.1) + (5 \times 0.01) + (9 \times 0.001) + (7 \times 0.0001)$$

5. **3.7427**

$$(3 \times 1) + (7 \times 0.1) + (4 \times 0.01) + (2 \times 0.001) + (7 \times 0.0001)$$

6. **8.3473**

$$(8 \times 1) + (3 \times 0.1) + (4 \times 0.01) + (7 \times 0.001) + (3 \times 0.0001)$$

7. **9.0239**

$$(9 \times 1) + (2 \times 0.01) + (3 \times 0.001) + (9 \times 0.0001)$$

8. **5.3678**

$$(5 \times 1) + (3 \times 0.1) + (6 \times 0.01) + (7 \times 0.001) + (8 \times 0.0001)$$

9. **9.3519**

$$(9 \times 1) + (3 \times 0.1) + (5 \times 0.01) + (1 \times 0.001) + (9 \times 0.0001)$$

10. **4.4797**

$$(4 \times 1) + (4 \times 0.1) + (7 \times 0.01) + (9 \times 0.001) + (7 \times 0.0001)$$

Expanded Factors Form With Decimals (G)

Name: _____

Date: _____

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

1. 8.7009

2. 9.2347

3. 4.0682

4. 1.5435

5. 6.4919

6. 9.2577

7. 9.7879

8. 4.1137

9. 6.6643

10. 7.1716

Expanded Factors Form With Decimals (G) Answers

Name: _____

Date: _____

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

1. **8.7009**

$$(8 \times 1) + (7 \times 0.1) + (9 \times 0.0001)$$

2. **9.2347**

$$(9 \times 1) + (2 \times 0.1) + (3 \times 0.01) + (4 \times 0.001) + (7 \times 0.0001)$$

3. **4.0682**

$$(4 \times 1) + (6 \times 0.01) + (8 \times 0.001) + (2 \times 0.0001)$$

4. **1.5435**

$$(1 \times 1) + (5 \times 0.1) + (4 \times 0.01) + (3 \times 0.001) + (5 \times 0.0001)$$

5. **6.4919**

$$(6 \times 1) + (4 \times 0.1) + (9 \times 0.01) + (1 \times 0.001) + (9 \times 0.0001)$$

6. **9.2577**

$$(9 \times 1) + (2 \times 0.1) + (5 \times 0.01) + (7 \times 0.001) + (7 \times 0.0001)$$

7. **9.7879**

$$(9 \times 1) + (7 \times 0.1) + (8 \times 0.01) + (7 \times 0.001) + (9 \times 0.0001)$$

8. **4.1137**

$$(4 \times 1) + (1 \times 0.1) + (1 \times 0.01) + (3 \times 0.001) + (7 \times 0.0001)$$

9. **6.6643**

$$(6 \times 1) + (6 \times 0.1) + (6 \times 0.01) + (4 \times 0.001) + (3 \times 0.0001)$$

10. **7.1716**

$$(7 \times 1) + (1 \times 0.1) + (7 \times 0.01) + (1 \times 0.001) + (6 \times 0.0001)$$

Expanded Factors Form With Decimals (H)

Name: _____

Date: _____

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

1. 5.5868

2. 3.4205

3. 9.6374

4. 7.3683

5. 6.7231

6. 4.0405

7. 4.8494

8. 7.5729

9. 3.2909

10. 6.7481

Expanded Factors Form With Decimals (H) Answers

Name: _____

Date: _____

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

1. **5.5868**

$$(5 \times 1) + (5 \times 0.1) + (8 \times 0.01) + (6 \times 0.001) + (8 \times 0.0001)$$

2. **3.4205**

$$(3 \times 1) + (4 \times 0.1) + (2 \times 0.01) + (5 \times 0.0001)$$

3. **9.6374**

$$(9 \times 1) + (6 \times 0.1) + (3 \times 0.01) + (7 \times 0.001) + (4 \times 0.0001)$$

4. **7.3683**

$$(7 \times 1) + (3 \times 0.1) + (6 \times 0.01) + (8 \times 0.001) + (3 \times 0.0001)$$

5. **6.7231**

$$(6 \times 1) + (7 \times 0.1) + (2 \times 0.01) + (3 \times 0.001) + (1 \times 0.0001)$$

6. **4.0405**

$$(4 \times 1) + (4 \times 0.01) + (5 \times 0.0001)$$

7. **4.8494**

$$(4 \times 1) + (8 \times 0.1) + (4 \times 0.01) + (9 \times 0.001) + (4 \times 0.0001)$$

8. **7.5729**

$$(7 \times 1) + (5 \times 0.1) + (7 \times 0.01) + (2 \times 0.001) + (9 \times 0.0001)$$

9. **3.2909**

$$(3 \times 1) + (2 \times 0.1) + (9 \times 0.01) + (9 \times 0.0001)$$

10. **6.7481**

$$(6 \times 1) + (7 \times 0.1) + (4 \times 0.01) + (8 \times 0.001) + (1 \times 0.0001)$$

Expanded Factors Form With Decimals (I)

Name: _____

Date: _____

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

1. 5.9152

2. 5.5161

3. 6.8068

4. 8.0152

5. 4.5098

6. 8.7156

7. 9.0621

8. 6.6198

9. 3.9237

10. 9.2726

Expanded Factors Form With Decimals (I) Answers

Name: _____

Date: _____

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

1. **5.9152**

$$(5 \times 1) + (9 \times 0.1) + (1 \times 0.01) + (5 \times 0.001) + (2 \times 0.0001)$$

2. **5.5161**

$$(5 \times 1) + (5 \times 0.1) + (1 \times 0.01) + (6 \times 0.001) + (1 \times 0.0001)$$

3. **6.8068**

$$(6 \times 1) + (8 \times 0.1) + (6 \times 0.001) + (8 \times 0.0001)$$

4. **8.0152**

$$(8 \times 1) + (1 \times 0.01) + (5 \times 0.001) + (2 \times 0.0001)$$

5. **4.5098**

$$(4 \times 1) + (5 \times 0.1) + (9 \times 0.001) + (8 \times 0.0001)$$

6. **8.7156**

$$(8 \times 1) + (7 \times 0.1) + (1 \times 0.01) + (5 \times 0.001) + (6 \times 0.0001)$$

7. **9.0621**

$$(9 \times 1) + (6 \times 0.01) + (2 \times 0.001) + (1 \times 0.0001)$$

8. **6.6198**

$$(6 \times 1) + (6 \times 0.1) + (1 \times 0.01) + (9 \times 0.001) + (8 \times 0.0001)$$

9. **3.9237**

$$(3 \times 1) + (9 \times 0.1) + (2 \times 0.01) + (3 \times 0.001) + (7 \times 0.0001)$$

10. **9.2726**

$$(9 \times 1) + (2 \times 0.1) + (7 \times 0.01) + (2 \times 0.001) + (6 \times 0.0001)$$

Expanded Factors Form With Decimals (J)

Name: _____

Date: _____

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

1. 1.6737

2. 7.8044

3. 8.0223

4. 1.1724

5. 3.7032

6. 2.1638

7. 7.9531

8. 8.7638

9. 2.4766

10. 2.7449

Expanded Factors Form With Decimals (J) Answers

Name: _____

Date: _____

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

1. **1.6737**

$$(1 \times 1) + (6 \times 0.1) + (7 \times 0.01) + (3 \times 0.001) + (7 \times 0.0001)$$

2. **7.8044**

$$(7 \times 1) + (8 \times 0.1) + (4 \times 0.001) + (4 \times 0.0001)$$

3. **8.0223**

$$(8 \times 1) + (2 \times 0.01) + (2 \times 0.001) + (3 \times 0.0001)$$

4. **1.1724**

$$(1 \times 1) + (1 \times 0.1) + (7 \times 0.01) + (2 \times 0.001) + (4 \times 0.0001)$$

5. **3.7032**

$$(3 \times 1) + (7 \times 0.1) + (3 \times 0.001) + (2 \times 0.0001)$$

6. **2.1638**

$$(2 \times 1) + (1 \times 0.1) + (6 \times 0.01) + (3 \times 0.001) + (8 \times 0.0001)$$

7. **7.9531**

$$(7 \times 1) + (9 \times 0.1) + (5 \times 0.01) + (3 \times 0.001) + (1 \times 0.0001)$$

8. **8.7638**

$$(8 \times 1) + (7 \times 0.1) + (6 \times 0.01) + (3 \times 0.001) + (8 \times 0.0001)$$

9. **2.4766**

$$(2 \times 1) + (4 \times 0.1) + (7 \times 0.01) + (6 \times 0.001) + (6 \times 0.0001)$$

10. **2.7449**

$$(2 \times 1) + (7 \times 0.1) + (4 \times 0.01) + (4 \times 0.001) + (9 \times 0.0001)$$