

Expanded Factors Form With Decimals (A)

Name: _____

Date: _____

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

1. 2.541

2. 2.094

3. 2.912

4. 3.201

5. 8.102

6. 5.835

7. 5.252

8. 9.893

9. 2.575

10. 3.658

Expanded Factors Form With Decimals (A) Answers

Name: _____

Date: _____

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

1. **2.541**

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

2. **2.094**

$$(2 \times 1) + (9 \times \frac{1}{100}) + (4 \times \frac{1}{1000})$$

3. **2.912**

$$(2 \times 1) + (9 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (2 \times \frac{1}{1000})$$

4. **3.201**

$$(3 \times 1) + (2 \times \frac{1}{10}) + (1 \times \frac{1}{1000})$$

5. **8.102**

$$(8 \times 1) + (1 \times \frac{1}{10}) + (2 \times \frac{1}{1000})$$

6. **5.835**

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

7. **5.252**

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

8. **9.893**

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

9. **2.575**

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

10. **3.658**

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

Expanded Factors Form With Decimals (B)

Name: _____

Date: _____

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

1. 5.146

2. 7.826

3. 8.385

4. 4.965

5. 5.597

6. 7.594

7. 4.702

8. 3.689

9. 2.486

10. 5.966

Expanded Factors Form With Decimals (B) Answers

Name: _____

Date: _____

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

1. **5.146**

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

2. **7.826**

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

3. **8.385**

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

4. **4.965**

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

5. **5.597**

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

6. **7.594**

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

7. **4.702**

$$(4 \times 1) + (7 \times \frac{1}{10}) + (2 \times \frac{1}{1000})$$

8. **3.689**

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

9. **2.486**

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

10. **5.966**

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

Expanded Factors Form With Decimals (C)

Name: _____

Date: _____

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

1. 8.696

2. 4.097

3. 2.339

4. 2.068

5. 1.561

6. 8.044

7. 1.101

8. 3.255

9. 7.877

10. 6.561

Expanded Factors Form With Decimals (C) Answers

Name: _____

Date: _____

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

1. **8.696**

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

2. **4.097**

$$(4 \times 1) + (9 \times \frac{1}{100}) + (7 \times \frac{1}{1000})$$

3. **2.339**

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

4. **2.068**

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

5. **1.561**

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

6. **8.044**

$$(8 \times 1) + (4 \times \frac{1}{100}) + (4 \times \frac{1}{1000})$$

7. **1.101**

$$(1 \times 1) + (1 \times \frac{1}{10}) + (1 \times \frac{1}{1000})$$

8. **3.255**

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

9. **7.877**

$$(7 \times 1) + (8 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (7 \times \frac{1}{1000})$$

10. **6.561**

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

Expanded Factors Form With Decimals (D)

Name: _____

Date: _____

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

1. 3.023

2. 1.406

3. 8.163

4. 9.887

5. 7.277

6. 3.935

7. 3.597

8. 9.135

9. 5.792

10. 3.303

Expanded Factors Form With Decimals (D) Answers

Name: _____

Date: _____

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

1. **3.023**

$$(3 \times 1) + (2 \times \frac{1}{100}) + (3 \times \frac{1}{1000})$$

2. **1.406**

$$(1 \times 1) + (4 \times \frac{1}{10}) + (6 \times \frac{1}{1000})$$

3. **8.163**

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

4. **9.887**

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

5. **7.277**

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

6. **3.935**

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

7. **3.597**

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

8. **9.135**

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

9. **5.792**

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

10. **3.303**

$$(3 \times 1) + (3 \times \frac{1}{10}) + (3 \times \frac{1}{1000})$$

Expanded Factors Form With Decimals (E)

Name: _____

Date: _____

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

1. 5.309

2. 7.967

3. 4.032

4. 3.513

5. 3.076

6. 4.147

7. 2.346

8. 2.727

9. 6.896

10. 8.582

Expanded Factors Form With Decimals (E) Answers

Name: _____

Date: _____

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

1. **5.309**

$$(5 \times 1) + (3 \times \frac{1}{10}) + (9 \times \frac{1}{1000})$$

2. **7.967**

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

3. **4.032**

$$(4 \times 1) + (3 \times \frac{1}{100}) + (2 \times \frac{1}{1000})$$

4. **3.513**

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

5. **3.076**

$$(3 \times 1) + (7 \times \frac{1}{100}) + (6 \times \frac{1}{1000})$$

6. **4.147**

$$(4 \times 1) + (1 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (7 \times \frac{1}{1000})$$

7. **2.346**

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

8. **2.727**

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

9. **6.896**

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

10. **8.582**

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

Expanded Factors Form With Decimals (F)

Name: _____

Date: _____

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

1. 6.475

2. 2.675

3. 6.787

4. 5.089

5. 2.452

6. 6.732

7. 1.649

8. 6.324

9. 4.283

10. 2.638

Expanded Factors Form With Decimals (F) Answers

Name: _____

Date: _____

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

1. **6.475**

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

2. **2.675**

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

3. **6.787**

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

4. **5.089**

$$(5 \times 1) + (8 \times \frac{1}{100}) + (9 \times \frac{1}{1000})$$

5. **2.452**

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

6. **6.732**

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

7. **1.649**

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

8. **6.324**

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

9. **4.283**

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

10. **2.638**

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

Expanded Factors Form With Decimals (G)

Name: _____

Date: _____

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

1. 7.283

2. 8.304

3. 9.771

4. 2.125

5. 7.748

6. 4.775

7. 6.882

8. 9.734

9. 6.221

10. 1.606

Expanded Factors Form With Decimals (G) Answers

Name: _____

Date: _____

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

1. **7.283**

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

2. **8.304**

$$(8 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{1000})$$

3. **9.771**

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

4. **2.125**

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

5. **7.748**

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

6. **4.775**

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

7. **6.882**

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

8. **9.734**

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

9. **6.221**

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

10. **1.606**

$$(1 \times 1) + (6 \times \frac{1}{10}) + (6 \times \frac{1}{1000})$$

Expanded Factors Form With Decimals (H)

Name: _____

Date: _____

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

1. 9.338

2. 2.004

3. 3.493

4. 8.977

5. 5.954

6. 6.684

7. 5.042

8. 4.321

9. 1.574

10. 5.368

Expanded Factors Form With Decimals (H) Answers

Name: _____

Date: _____

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

1. **9.338**

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

2. **2.004**

$$(2 \times 1) + (4 \times \frac{1}{1000})$$

3. **3.493**

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

4. **8.977**

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

5. **5.954**

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

6. **6.684**

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

7. **5.042**

$$(5 \times 1) + (4 \times \frac{1}{100}) + (2 \times \frac{1}{1000})$$

8. **4.321**

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

9. **1.574**

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

10. **5.368**

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

Expanded Factors Form With Decimals (I)

Name: _____

Date: _____

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

1. 1.658

2. 3.955

3. 5.465

4. 3.448

5. 5.937

6. 2.296

7. 1.579

8. 5.225

9. 6.456

10. 3.472

Expanded Factors Form With Decimals (I) Answers

Name: _____

Date: _____

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

1. **1.658**

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

2. **3.955**

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

3. **5.465**

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

4. **3.448**

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

5. **5.937**

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

6. **2.296**

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

7. **1.579**

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

8. **5.225**

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

9. **6.456**

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

10. **3.472**

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

Expanded Factors Form With Decimals (J)

Name: _____

Date: _____

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

1. 5.642

2. 4.187

3. 7.449

4. 5.074

5. 9.975

6. 6.086

7. 9.804

8. 5.415

9. 7.111

10. 8.409

Expanded Factors Form With Decimals (J) Answers

Name: _____

Date: _____

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

1. **5.642**

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

2. **4.187**

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

3. **7.449**

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

4. **5.074**

$$(5 \times 1) + (7 \times \frac{1}{100}) + (4 \times \frac{1}{1000})$$

5. **9.975**

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

6. **6.086**

$$(6 \times 1) + (8 \times \frac{1}{100}) + (6 \times \frac{1}{1000})$$

7. **9.804**

$$(9 \times 1) + (8 \times \frac{1}{10}) + (4 \times \frac{1}{1000})$$

8. **5.415**

$$(5 \times 1) + (4 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (5 \times \frac{1}{1000})$$

9. **7.111**

$$(7 \times 1) + (1 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (1 \times \frac{1}{1000})$$

10. **8.409**

$$(8 \times 1) + (4 \times \frac{1}{10}) + (9 \times \frac{1}{1000})$$