

Expanded Form With Decimals (A)

Name: _____

Date: _____

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

1. 8.255148

2. 8.618193

3. 3.174393

4. 6.093068

5. 7.079135

6. 2.314466

7. 3.551972

8. 4.338908

9. 1.943485

10. 8.372402

Expanded Form With Decimals (A) Answers

Name: _____

Date: _____

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

1. 8.255148

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

2. 8.618193

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

3. 3.174393

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

4. 6.093068

$$6 + \frac{9}{100} + \frac{3}{1000} + \frac{6}{100,000} + \frac{8}{1,000,000}$$

5. 7.079135

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

6. 2.314466

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

7. 3.551972

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

8. 4.338908

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

9. 1.943485

$$1 + \frac{9}{10} + \frac{4}{100} + \frac{3}{1000} + \frac{4}{10,000} + \frac{8}{100,000} + \frac{5}{1,000,000}$$

10. 8.372402

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

Expanded Form With Decimals (B)

Name: _____

Date: _____

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

1. 7.494864
2. 1.440287
3. 8.303553
4. 2.506658
5. 6.007267
6. 2.335048
7. 7.172623
8. 8.422288
9. 6.886418
10. 5.519474

Expanded Form With Decimals (B) Answers

Name: _____

Date: _____

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

1. 7.494864

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

2. 1.440287

$$1 + \frac{4}{10} + \frac{4}{100} + \frac{2}{10,000} + \frac{8}{100,000} + \frac{7}{1,000,000}$$

3. 8.303553

$$8 + \frac{3}{10} + \frac{3}{1000} + \frac{5}{10,000} + \frac{5}{100,000} + \frac{3}{1,000,000}$$

4. 2.506658

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

5. 6.007267

$$6 + \frac{7}{1000} + \frac{2}{10,000} + \frac{6}{100,000} + \frac{7}{1,000,000}$$

6. 2.335048

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

7. 7.172623

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

8. 8.422288

$$8 + \frac{4}{10} + \frac{2}{100} + \frac{2}{1000} + \frac{2}{10,000} + \frac{8}{100,000} + \frac{8}{1,000,000}$$

9. 6.886418

$$6 + \frac{8}{10} + \frac{8}{100} + \frac{6}{1000} + \frac{4}{10,000} + \frac{1}{100,000} + \frac{8}{1,000,000}$$

10. 5.519474

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

Expanded Form With Decimals (C)

Name: _____

Date: _____

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

1. 2.600129

2. 4.470235

3. 1.192212

4. 8.854344

5. 5.983766

6. 6.327997

7. 5.962116

8. 4.545592

9. 2.361831

10. 5.238864

Expanded Form With Decimals (C) Answers

Name: _____

Date: _____

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

1. 2.600129

$$2 + \frac{6}{10} + \frac{1}{10,000} + \frac{2}{100,000} + \frac{9}{1,000,000}$$

2. 4.470235

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

3. 1.192212

$$1 + \frac{1}{10} + \frac{9}{100} + \frac{2}{1000} + \frac{2}{10,000} + \frac{1}{100,000} + \frac{2}{1,000,000}$$

4. 8.854344

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

5. 5.983766

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

6. 6.327997

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

7. 5.962116

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

8. 4.545592

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

9. 2.361831

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

10. 5.238864

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

Expanded Form With Decimals (D)

Name: _____

Date: _____

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

1. 3.210579

2. 9.585597

3. 6.756526

4. 5.043955

5. 2.207254

6. 8.656673

7. 3.590782

8. 5.013511

9. 6.555353

10. 3.668578

Expanded Form With Decimals (D) Answers

Name: _____

Date: _____

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

1. 3.210579

$$3 + \frac{2}{10} + \frac{1}{100} + \frac{5}{10,000} + \frac{7}{100,000} + \frac{9}{1,000,000}$$

2. 9.585597

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

3. 6.756526

$$6 + \frac{7}{10} + \frac{5}{100} + \frac{6}{1000} + \frac{5}{10,000} + \frac{2}{100,000} + \frac{6}{1,000,000}$$

4. 5.043955

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

5. 2.207254

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

6. 8.656673

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

7. 3.590782

$$3 + \frac{5}{10} + \frac{9}{100} + \frac{7}{10,000} + \frac{8}{100,000} + \frac{2}{1,000,000}$$

8. 5.013511

$$5 + \frac{1}{100} + \frac{3}{1000} + \frac{5}{10,000} + \frac{1}{100,000} + \frac{1}{1,000,000}$$

9. 6.555353

$$6 + \frac{5}{10} + \frac{5}{100} + \frac{5}{1000} + \frac{3}{10,000} + \frac{5}{100,000} + \frac{3}{1,000,000}$$

10. 3.668578

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

Expanded Form With Decimals (E)

Name: _____

Date: _____

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

1. 1.520451

2. 7.197059

3. 3.474915

4. 1.755512

5. 1.127381

6. 9.042309

7. 8.384844

8. 5.225451

9. 1.593491

10. 8.937896

Expanded Form With Decimals (E) Answers

Name: _____

Date: _____

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

1. 1.520451

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

2. 7.197059

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

3. 3.474915

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

4. 1.755512

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

5. 1.127381

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

6. 9.042309

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

7. 8.384844

$$8 + \frac{3}{10} + \frac{8}{100} + \frac{4}{1000} + \frac{8}{10,000} + \frac{4}{100,000} + \frac{4}{1,000,000}$$

8. 5.225451

$$5 + \frac{2}{10} + \frac{2}{100} + \frac{5}{1000} + \frac{4}{10,000} + \frac{5}{100,000} + \frac{1}{1,000,000}$$

9. 1.593491

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

10. 8.937896

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

Expanded Form With Decimals (F)

Name: _____

Date: _____

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

1. 8.682038

2. 8.000247

3. 7.888633

4. 9.463133

5. 7.959905

6. 8.395393

7. 4.164694

8. 3.614417

9. 8.601484

10. 9.878839

Expanded Form With Decimals (F) Answers

Name: _____

Date: _____

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

1. 8.682038

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

2. 8.000247

$$8 + \frac{2}{10,000} + \frac{4}{100,000} + \frac{7}{1,000,000}$$

3. 7.888633

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

4. 9.463133

$$9 + \frac{4}{10} + \frac{6}{100} + \frac{3}{1000} + \frac{1}{10,000} + \frac{3}{100,000} + \frac{3}{1,000,000}$$

5. 7.959905

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

6. 8.395393

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

7. 4.164694

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

8. 3.614417

$$3 + \frac{6}{10} + \frac{1}{100} + \frac{4}{1000} + \frac{4}{10,000} + \frac{1}{100,000} + \frac{7}{1,000,000}$$

9. 8.601484

$$8 + \frac{6}{10} + \frac{1}{1000} + \frac{4}{10,000} + \frac{8}{100,000} + \frac{4}{1,000,000}$$

10. 9.878839

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

Expanded Form With Decimals (G)

Name: _____

Date: _____

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

1. 4.096379
2. 4.646638
3. 8.196228
4. 2.855396
5. 7.875614
6. 4.336902
7. 3.924759
8. 3.238707
9. 8.300117
10. 5.551981

Expanded Form With Decimals (G) Answers

Name: _____

Date: _____

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

1. 4.096379

$$4 + \frac{9}{100} + \frac{6}{1000} + \frac{3}{10,000} + \frac{7}{100,000} + \frac{9}{1,000,000}$$

2. 4.646638

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

3. 8.196228

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

4. 2.855396

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

5. 7.875614

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

6. 4.336902

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

7. 3.924759

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

8. 3.238707

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

9. 8.300117

$$8 + \frac{3}{10} + \frac{1}{10,000} + \frac{1}{100,000} + \frac{7}{1,000,000}$$

10. 5.551981

$$5 + \frac{5}{10} + \frac{5}{100} + \frac{1}{1000} + \frac{9}{10,000} + \frac{8}{100,000} + \frac{1}{1,000,000}$$

Expanded Form With Decimals (H)

Name: _____

Date: _____

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

1. 3.746866
2. 2.865854
3. 3.999759
4. 3.933813
5. 9.619071
6. 6.539104
7. 2.507586
8. 3.697476
9. 2.104475
10. 8.026857

Expanded Form With Decimals (H) Answers

Name: _____

Date: _____

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

1. 3.746866

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

2. 2.865854

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

3. 3.999759

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

4. 3.933813

$$3 + \frac{9}{10} + \frac{3}{100} + \frac{3}{1000} + \frac{8}{10,000} + \frac{1}{100,000} + \frac{3}{1,000,000}$$

5. 9.619071

$$9 + \frac{6}{10} + \frac{1}{100} + \frac{9}{1000} + \frac{7}{100,000} + \frac{1}{1,000,000}$$

6. 6.539104

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

7. 2.507586

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

8. 3.697476

$$3 + \frac{6}{10} + \frac{9}{100} + \frac{7}{1000} + \frac{4}{10,000} + \frac{7}{100,000} + \frac{6}{1,000,000}$$

9. 2.104475

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

10. 8.026857

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

Expanded Form With Decimals (I)

Name: _____

Date: _____

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

1. 5.731531

2. 7.933844

3. 1.094843

4. 2.768482

5. 2.711772

6. 6.732852

7. 1.711036

8. 1.645886

9. 9.921313

10. 2.843511

Expanded Form With Decimals (I) Answers

Name: _____

Date: _____

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

1. 5.731531

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

2. 7.933844

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

3. 1.094843

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

4. 2.768482

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

5. 2.711772

$$2 + \frac{7}{10} + \frac{1}{100} + \frac{1}{1000} + \frac{7}{10,000} + \frac{7}{100,000} + \frac{2}{1,000,000}$$

6. 6.732852

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

7. 1.711036

$$1 + \frac{7}{10} + \frac{1}{100} + \frac{1}{1000} + \frac{3}{100,000} + \frac{6}{1,000,000}$$

8. 1.645886

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

9. 9.921313

$$9 + \frac{9}{10} + \frac{2}{100} + \frac{1}{1000} + \frac{3}{10,000} + \frac{1}{100,000} + \frac{3}{1,000,000}$$

10. 2.843511

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

Expanded Form With Decimals (J)

Name: _____

Date: _____

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

1. 9.539459

2. 8.803107

3. 8.398369

4. 7.361265

5. 7.255984

6. 1.993826

7. 2.356194

8. 8.127986

9. 5.307976

10. 9.026714

Expanded Form With Decimals (J) Answers

Name: _____

Date: _____

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

1. 9.539459

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

2. 8.803107

$$8 + \frac{8}{10} + \frac{3}{1000} + \frac{1}{10,000} + \frac{7}{1,000,000}$$

3. 8.398369

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

4. 7.361265

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

5. 7.255984

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

6. 1.993826

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

7. 2.356194

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

8. 8.127986

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

9. 5.307976

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

10. 9.026714

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