

## Expanded Factors Form With Decimals (E)

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

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

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

1. 2.873510684

2. 6.695411642

3. 5.081179328

4. 8.133183233

5. 9.106505449

6. 1.901760604

7. 6.103173483

8. 2.912881517

9. 6.176746455

10. 5.975860259

# Expanded Factors Form With Decimals (E) Answers

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

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

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

1. **2.873510684**

$$(2 \times 1) + (8 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (3 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (6 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000}) + (4 \times \frac{1}{1,000,000,000})$$

2. **6.695411642**

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

3. **5.081179328**

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

4. **8.133183233**

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

5. **9.106505449**

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

6. **1.901760604**

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

7. **6.103173483**

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

8. **2.912881517**

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

9. **6.176746455**

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

10. **5.975860259**

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