

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**

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

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**

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

6. **6.65263094**

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

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**

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