

Expanded Factors Form With Decimals (F)

Name: _____

Date: _____

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

1. 9.934179909

2. 9.712263645

3. 7.906116399

4. 7.219811633

5. 4.764047811

6. 6.429719055

7. 8.488371422

8. 7.062444747

9. 7.815839344

10. 8.619744486

Expanded Factors Form With Decimals (F) Answers

Name: _____

Date: _____

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

1. **9.934179909**

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

2. **9.712263645**

$$(9 \times 1) + (7 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000}) + (5 \times \frac{1}{1,000,000,000})$$

3. **7.906116399**

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

4. **7.219811633**

$$(7 \times 1) + (2 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (3 \times \frac{1}{100,000,000}) + (3 \times \frac{1}{1,000,000,000})$$

5. **4.764047811**

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

6. **6.429719055**

$$(6 \times 1) + (4 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{100,000,000}) + (5 \times \frac{1}{1,000,000,000})$$

7. **8.488371422**

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

8. **7.062444747**

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

9. **7.815839344**

$$(7 \times 1) + (8 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000}) + (4 \times \frac{1}{1,000,000,000})$$

10. **8.619744486**

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