

Expanded Factors Form With Decimals (C)

Name: _____

Date: _____

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

1. 2.31640253

2. 8.20160043

3. 9.14139743

4. 4.11233757

5. 4.08825889

6. 1.28969053

7. 3.82898462

8. 7.98190239

9. 3.52150255

10. 8.01384973

Expanded Factors Form With Decimals (C) Answers

Name: _____

Date: _____

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

1. **2.31640253**

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

2. **8.20160043**

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

3. **9.14139743**

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

4. **4.11233757**

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

5. **4.08825889**

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

6. **1.28969053**

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

7. **3.82898462**

$$(3 \times 1) + (8 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (8 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

8. **7.98190239**

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

9. **3.52150255**

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

10. **8.01384973**

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