

Expanded Factors Form With Decimals (B)

Name: _____

Date: _____

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

1. 8.65285561

2. 5.59908102

3. 4.99877801

4. 1.05595577

5. 5.88095182

6. 8.44467824

7. 9.10601584

8. 2.20015224

9. 5.24473458

10. 7.52025361

Expanded Factors Form With Decimals (B) Answers

Name: _____

Date: _____

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

1. **8.65285561**

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

2. **5.59908102**

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

3. **4.99877801**

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

4. **1.05595577**

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

5. **5.88095182**

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

6. **8.44467824**

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

7. **9.10601584**

$$(9 \times 1) + (1 \times \frac{1}{10}) + (6 \times \frac{1}{1000}) + (1 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (8 \times \frac{1}{10,000,000}) + (4 \times \frac{1}{100,000,000})$$

8. **2.20015224**

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

9. **5.24473458**

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

10. **7.52025361**

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