

Expanded Factors Form With Decimals (C)

Name: _____

Date: _____

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

1. 9.198572138

2. 8.146772354

3. 6.265318875

4. 1.101100844

5. 6.346069657

6. 7.573033012

7. 6.838980157

8. 6.167097474

9. 6.914763263

10. 6.474980705

Expanded Factors Form With Decimals (C) Answers

Name: _____

Date: _____

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

1. **9.198572138**

$$(9 \times 1) + (1 \times 0.1) + (9 \times 0.01) + (8 \times 0.001) + (5 \times 0.0001) + (7 \times 0.00001) + (2 \times 0.000001) + (1 \times 0.0000001) + (3 \times 0.00000001) + (8 \times 0.000000001)$$

2. **8.146772354**

$$(8 \times 1) + (1 \times 0.1) + (4 \times 0.01) + (6 \times 0.001) + (7 \times 0.0001) + (7 \times 0.00001) + (2 \times 0.000001) + (3 \times 0.0000001) + (5 \times 0.00000001) + (4 \times 0.000000001)$$

3. **6.265318875**

$$(6 \times 1) + (2 \times 0.1) + (6 \times 0.01) + (5 \times 0.001) + (3 \times 0.0001) + (1 \times 0.00001) + (8 \times 0.000001) + (8 \times 0.0000001) + (7 \times 0.00000001) + (5 \times 0.000000001)$$

4. **1.101100844**

$$(1 \times 1) + (1 \times 0.1) + (1 \times 0.001) + (1 \times 0.0001) + (8 \times 0.0000001) + (4 \times 0.00000001) + (4 \times 0.000000001)$$

5. **6.346069657**

$$(6 \times 1) + (3 \times 0.1) + (4 \times 0.01) + (6 \times 0.001) + (6 \times 0.00001) + (9 \times 0.000001) + (6 \times 0.0000001) + (5 \times 0.00000001) + (7 \times 0.000000001)$$

6. **7.573033012**

$$(7 \times 1) + (5 \times 0.1) + (7 \times 0.01) + (3 \times 0.001) + (3 \times 0.00001) + (3 \times 0.000001) + (1 \times 0.00000001) + (2 \times 0.000000001)$$

7. **6.838980157**

$$(6 \times 1) + (8 \times 0.1) + (3 \times 0.01) + (8 \times 0.001) + (9 \times 0.0001) + (8 \times 0.00001) + (1 \times 0.0000001) + (5 \times 0.00000001) + (7 \times 0.000000001)$$

8. **6.167097474**

$$(6 \times 1) + (1 \times 0.1) + (6 \times 0.01) + (7 \times 0.001) + (9 \times 0.00001) + (7 \times 0.000001) + (4 \times 0.0000001) + (7 \times 0.00000001) + (4 \times 0.000000001)$$

9. **6.914763263**

$$(6 \times 1) + (9 \times 0.1) + (1 \times 0.01) + (4 \times 0.001) + (7 \times 0.0001) + (6 \times 0.00001) + (3 \times 0.000001) + (2 \times 0.0000001) + (6 \times 0.00000001) + (3 \times 0.000000001)$$

10. **6.474980705**

$$(6 \times 1) + (4 \times 0.1) + (7 \times 0.01) + (4 \times 0.001) + (9 \times 0.0001) + (8 \times 0.00001) + (7 \times 0.000001) + (5 \times 0.00000001)$$