

Expanded Factors Form With Decimals (A)

Name: _____

Date: _____

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

1. 4.325836451

2. 2.236874003

3. 4.360696326

4. 9.798772925

5. 4.211114278

6. 9.379956533

7. 4.005683313

8. 1.018978449

9. 9.010665647

10. 3.636053198

Expanded Factors Form With Decimals (A) Answers

Name: _____

Date: _____

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

1. **4.325836451**

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

2. **2.236874003**

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

3. **4.360696326**

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

4. **9.798772925**

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

5. **4.211114278**

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

6. **9.379956533**

$$(9 \times 1) + (3 \times 0.1) + (7 \times 0.01) + (9 \times 0.001) + (9 \times 0.0001) + (5 \times 0.00001) + (6 \times 0.000001) + (5 \times 0.0000001) + (3 \times 0.00000001) + (3 \times 0.000000001)$$

7. **4.005683313**

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

8. **1.018978449**

$$(1 \times 1) + (1 \times 0.01) + (8 \times 0.001) + (9 \times 0.0001) + (7 \times 0.00001) + (8 \times 0.000001) + (4 \times 0.0000001) + (4 \times 0.00000001) + (9 \times 0.000000001)$$

9. **9.010665647**

$$(9 \times 1) + (1 \times 0.01) + (6 \times 0.0001) + (6 \times 0.00001) + (5 \times 0.000001) + (6 \times 0.0000001) + (4 \times 0.00000001) + (7 \times 0.000000001)$$

10. **3.636053198**

$$(3 \times 1) + (6 \times 0.1) + (3 \times 0.01) + (6 \times 0.001) + (5 \times 0.00001) + (3 \times 0.000001) + (1 \times 0.0000001) + (9 \times 0.00000001) + (8 \times 0.000000001)$$