

Expanded Factors Form With Decimals (A)

Name: _____

Date: _____

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

1. 8.86855631

2. 4.94444166

3. 8.63619904

4. 3.43163395

5. 7.13972915

6. 6.28347635

7. 8.72489631

8. 5.20620761

9. 5.47140534

10. 2.54049367

Expanded Factors Form With Decimals (A) Answers

Name: _____

Date: _____

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

1. **8.86855631**

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

2. **4.94444166**

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

3. **8.63619904**

$$(8 \times 1) + (6 \times 0.1) + (3 \times 0.01) + (6 \times 0.001) + (1 \times 0.0001) + (9 \times 0.00001) + (9 \times 0.000001) + (4 \times 0.00000001)$$

4. **3.43163395**

$$(3 \times 1) + (4 \times 0.1) + (3 \times 0.01) + (1 \times 0.001) + (6 \times 0.0001) + (3 \times 0.00001) + (3 \times 0.000001) + (9 \times 0.0000001) + (5 \times 0.00000001)$$

5. **7.13972915**

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

6. **6.28347635**

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

7. **8.72489631**

$$(8 \times 1) + (7 \times 0.1) + (2 \times 0.01) + (4 \times 0.001) + (8 \times 0.0001) + (9 \times 0.00001) + (6 \times 0.000001) + (3 \times 0.0000001) + (1 \times 0.00000001)$$

8. **5.20620761**

$$(5 \times 1) + (2 \times 0.1) + (6 \times 0.001) + (2 \times 0.0001) + (7 \times 0.000001) + (6 \times 0.0000001) + (1 \times 0.00000001)$$

9. **5.47140534**

$$(5 \times 1) + (4 \times 0.1) + (7 \times 0.01) + (1 \times 0.001) + (4 \times 0.0001) + (5 \times 0.000001) + (3 \times 0.0000001) + (4 \times 0.00000001)$$

10. **2.54049367**

$$(2 \times 1) + (5 \times 0.1) + (4 \times 0.01) + (4 \times 0.0001) + (9 \times 0.00001) + (3 \times 0.000001) + (6 \times 0.0000001) + (7 \times 0.00000001)$$