

## Expanded Exponential Form With Decimals (E)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. 5.331628

2. 3.534923

3. 9.724395

4. 9.819957

5. 4.836625

6. 2.701662

7. 4.945851

8. 7.038608

9. 8.688621

10. 8.248132

## Expanded Exponential Form With Decimals (E) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded exponential form.

1. **5.331628**

$$(5 \times 10^0) + (3 \times 10^{-1}) + (3 \times 10^{-2}) + (1 \times 10^{-3}) + (6 \times 10^{-4}) + (2 \times 10^{-5}) + (8 \times 10^{-6})$$

2. **3.534923**

$$(3 \times 10^0) + (5 \times 10^{-1}) + (3 \times 10^{-2}) + (4 \times 10^{-3}) + (9 \times 10^{-4}) + (2 \times 10^{-5}) + (3 \times 10^{-6})$$

3. **9.724395**

$$(9 \times 10^0) + (7 \times 10^{-1}) + (2 \times 10^{-2}) + (4 \times 10^{-3}) + (3 \times 10^{-4}) + (9 \times 10^{-5}) + (5 \times 10^{-6})$$

4. **9.819957**

$$(9 \times 10^0) + (8 \times 10^{-1}) + (1 \times 10^{-2}) + (9 \times 10^{-3}) + (9 \times 10^{-4}) + (5 \times 10^{-5}) + (7 \times 10^{-6})$$

5. **4.836625**

$$(4 \times 10^0) + (8 \times 10^{-1}) + (3 \times 10^{-2}) + (6 \times 10^{-3}) + (6 \times 10^{-4}) + (2 \times 10^{-5}) + (5 \times 10^{-6})$$

6. **2.701662**

$$(2 \times 10^0) + (7 \times 10^{-1}) + (1 \times 10^{-3}) + (6 \times 10^{-4}) + (6 \times 10^{-5}) + (2 \times 10^{-6})$$

7. **4.945851**

$$(4 \times 10^0) + (9 \times 10^{-1}) + (4 \times 10^{-2}) + (5 \times 10^{-3}) + (8 \times 10^{-4}) + (5 \times 10^{-5}) + (1 \times 10^{-6})$$

8. **7.038608**

$$(7 \times 10^0) + (3 \times 10^{-2}) + (8 \times 10^{-3}) + (6 \times 10^{-4}) + (8 \times 10^{-6})$$

9. **8.688621**

$$(8 \times 10^0) + (6 \times 10^{-1}) + (8 \times 10^{-2}) + (8 \times 10^{-3}) + (6 \times 10^{-4}) + (2 \times 10^{-5}) + (1 \times 10^{-6})$$

10. **8.248132**

$$(8 \times 10^0) + (2 \times 10^{-1}) + (4 \times 10^{-2}) + (8 \times 10^{-3}) + (1 \times 10^{-4}) + (3 \times 10^{-5}) + (2 \times 10^{-6})$$