

## Expanded Exponential Form With Decimals (C)

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

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

Convert each standard form decimal number to expanded exponential form.

1. 3.393948

2. 5.868908

3. 1.133531

4. 6.477025

5. 9.154604

6. 3.465898

7. 6.438704

8. 3.652744

9. 4.927946

10. 2.387142

## Expanded Exponential Form With Decimals (C) Answers

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

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

Convert each standard form decimal number to expanded exponential form.

1. **3.393948**

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

2. **5.868908**

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

3. **1.133531**

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

4. **6.477025**

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

5. **9.154604**

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

6. **3.465898**

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

7. **6.438704**

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

8. **3.652744**

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

9. **4.927946**

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

10. **2.387142**

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