

## Expanded Exponential Form With Decimals (A)

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

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

Convert each standard form decimal number to expanded exponential form.

1. 7.42346371
2. 2.14037242
3. 1.74039453
4. 9.70073768
5. 5.51031435
6. 6.30538136
7. 2.57786681
8. 4.22750409
9. 4.09749581
10. 2.59407478

## Expanded Exponential Form With Decimals (A) Answers

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

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

Convert each standard form decimal number to expanded exponential form.

1. **7.42346371**

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

2. **2.14037242**

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

3. **1.74039453**

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

4. **9.70073768**

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

5. **5.51031435**

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

6. **6.30538136**

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

7. **2.57786681**

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

8. **4.22750409**

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

9. **4.09749581**

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

10. **2.59407478**

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