

Expanded Exponential Form With Decimals (B)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 2.6184335
2. 3.2024828
3. 8.2700381
4. 7.6044587
5. 7.1408104
6. 4.7613575
7. 4.7059843
8. 1.1581202
9. 2.2521599
10. 9.8246248

Expanded Exponential Form With Decimals (B) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **2.6184335**

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

2. **3.2024828**

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

3. **8.2700381**

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

4. **7.6044587**

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

5. **7.1408104**

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

6. **4.7613575**

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

7. **4.7059843**

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

8. **1.1581202**

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

9. **2.2521599**

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

10. **9.8246248**

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