

## Expanded Exponential Form With Decimals (J)

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

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

Convert each standard form decimal number to expanded exponential form.

1. 5.722488
2. 8.410073
3. 8.776197
4. 6.853416
5. 8.187509
6. 4.832184
7. 1.708009
8. 6.608193
9. 4.034777
10. 5.809702

## Expanded Exponential Form With Decimals (J) Answers

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

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

Convert each standard form decimal number to expanded exponential form.

1. **5.722488**

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

2. **8.410073**

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

3. **8.776197**

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

4. **6.853416**

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

5. **8.187509**

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

6. **4.832184**

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

7. **1.708009**

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

8. **6.608193**

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

9. **4.034777**

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

10. **5.809702**

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