

## Expanded Exponential Form With Decimals (C)

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

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

Convert each standard form decimal number to expanded exponential form.

1. 5.395445592
2. 2.719451735
3. 9.127630757
4. 1.630696833
5. 3.083446033
6. 1.465064518
7. 9.889647422
8. 6.521040399
9. 5.522634023
10. 9.033413144

# Expanded Exponential Form With Decimals (C) Answers

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

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

Convert each standard form decimal number to expanded exponential form.

1. **5.395445592**

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

2. **2.719451735**

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

3. **9.127630757**

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

4. **1.630696833**

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

5. **3.083446033**

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

6. **1.465064518**

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

7. **9.889647422**

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

8. **6.521040399**

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

9. **5.522634023**

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

10. **9.033413144**

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