

Expanded Exponential Form With Decimals (H)

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. 2.05016

2. 8.10508

3. 9.20221

4. 1.96974

5. 8.68989

6. 3.83004

7. 5.10484

8. 5.53729

9. 6.96184

10. 3.64475

Expanded Exponential Form With Decimals (H) Answers

Name: _____

Date: _____

Convert each standard form decimal number to expanded exponential form.

1. **2.05016**

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

2. **8.10508**

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

3. **9.20221**

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

4. **1.96974**

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

5. **8.68989**

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

6. **3.83004**

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

7. **5.10484**

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

8. **5.53729**

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

9. **6.96184**

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

10. **3.64475**

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