Expanded Form Quiz: Decimals

Write each number in expanded form using addition only.

1. 1.6 = _____ $1 + 0.6$ _____
OR $1 + \frac{6}{10}$

2. 3.9 = _____ $3 + 0.9$ _____
OR $3 + \frac{9}{10}$

3. 4.12 = _____ $4 + 0.1 + 0.02$ _____
OR $4 + \frac{1}{10} + \frac{2}{100}$

4. 0.73 = _____ $0.7 + 0.03$ _____
OR $\frac{7}{10} + \frac{3}{100}$

5. 11.58 = _____ $10 + 1 + 0.5 + 0.08$ _____
OR $10 + 1 + \frac{5}{10} + \frac{8}{100}$

6. 45.06 = _____ $40 + 5 + 0.06$ _____
OR $40 + 5 + \frac{6}{100}$

7. 20.291 = _____ $20 + 0.2 + 0.09 + 0.001$ _____
OR $20 + \frac{2}{10} + \frac{9}{100} + \frac{1}{1000}$

8. 107.009 = _____ $100 + 7 + 0.009$ _____
OR $100 + 7 + \frac{9}{1000}$

Write each number in expanded form using addition and multiplication.

1. 2.5 = _____ $2 \times 1 + 5 \times 0.1$ _____
OR $2 \times 1 + 5 \times \frac{1}{10}$

2. 58.4 = _____ $5 \times 10 + 8 \times 1 + 4 \times 0.1$ _____
OR $5 \times 10 + 8 \times 1 + 4 \times \frac{1}{10}$

3. 9.16 = _____ $9 \times 1 + 1 \times 0.1 + 6 \times 0.01$ _____
OR $9 \times 1 + 1 \times \frac{1}{10} + 6 \times \frac{1}{100}$

4. 10.88 = _____ $1 \times 10 + 8 \times 0.1 + 8 \times 0.01$ _____
OR $1 \times 10 + 8 \times \frac{1}{10} + 8 \times \frac{1}{100}$

5. 76.02 = _____ $7 \times 10 + 6 \times 1 + 2 \times 0.01$ _____
OR $7 \times 10 + 6 \times 1 + 2 \times \frac{1}{100}$

6. 0.748 = _____ $7 \times 0.1 + 4 \times 0.01 + 8 \times 0.001$ _____
OR $7 \times \frac{1}{10} + 4 \times \frac{1}{100} + 8 \times \frac{1}{1000}$

7. 4.607 = _____ $4 \times 1 + 6 \times 0.1 + 7 \times 0.001$ _____
OR $4 \times 1 + 6 \times \frac{1}{10} + 7 \times \frac{1}{1000}$

8. 30.093 = _____ $3 \times 10 + 9 \times 0.01 + 3 \times 0.001$ _____
OR $3 \times 10 + 9 \times \frac{1}{100} + 3 \times \frac{1}{1000}$