

Unit 5: Place Value Patterns and Decimal Operations

ADVANCED

Name: _____ Date: _____

Solve each problem. Show your work on scratch paper and write your final answer as a decimal or number. Notation: 10^3 means the third power of 10; $\times$ means multiply.

1. Evaluate: $(4.7 \times 10^3) - (2.85 \times 10^2)$

Answer: _____

2. A number is divided first by 10^2 and then by 10. If the starting number is 63,500, what is the final result?

Answer: _____

3. Evaluate using order of operations: $(12.6 + 3.85) \times 4 - 9.7$

Answer: _____

4. Divide: $84.6 \div 0.4$

Answer: _____

5. Multiply: 3.25×2.4

Answer: _____

6. Evaluate: 0.0072×10^4

Answer: _____

7. Evaluate: $(45.6 \div 10^2) + (1.28 \times 10)$

Answer: _____

8. Subtract in order: $100 - 27.35 - 14.8$

Answer: _____

9. Divide: $15.75 \div 2.5$

Answer: _____

10. A student buys 6 notebooks that cost \$4.85 each and pays with a \$50 bill. How much change (in dollars) should the student receive?

Answer: _____

11. Evaluate: $(2.3 \times 10^2) \times (1.5 \times 10^3)$

Answer: _____

12. Find the average (mean) of these four decimals: 3.6, 4.85, 2.9, and 5.25

Answer: _____