Testing Yourself

1. Add the numbers in the column at the right.
2. Find 70% of the sum.
3. Multiply 98,730.45 by 1000.
4. Divide 89,307.625 by 100.

3645.025
98730.45
52916.875
298.5
7463.75
89307.625

Solve these equations:

5. $6n + 9 = 45$ $\quad \frac{3}{8}c = 2.4$ $\quad \frac{x}{4} - 18 = 12$ $\quad \frac{x}{3} + 3x - x = 20$

6. $\frac{1}{2}x + 2\frac{1}{2}x - 1\frac{1}{2}x = 30$ $\quad 2a + 4a = 14.4$ $\quad n + 2n + 4n = 35$

Solve these problems:

7. How many cubic yards of earth were removed from an excavation 45 ft. by 30 ft. by 7.5 ft.?

8. At \$160 per M., what is the cost of 36 boards each $\frac{3}{4}$ in. thick, 9 in. wide, and 8 ft. long?

9. An 18-day escorted tour from Seattle to Alaska by air costs \$825. What is the cost per day for 3 persons?

10. The list price of a text book is \$1.72 and the net price is \$1.29. What is the per cent of discount? What is the amount of discount on 750 books?

11. The Trapps bought the following furniture at a sale: a \$379.50 davenport at 20% discount; two \$69.40 lounge chairs at 25% discount; and two \$46.78 end tables at 10% discount. What was the total bill?

12. The Trapps paid \$50 cash and agreed to pay the balance in twelve monthly payments. If the carrying charge was \$44.10, what was the amount of each payment?

13. If the Trapps had paid cash for the furniture, they would have received a discount of 2.5%. How much more was the installment price than the cash price?

14. Last year Mr. Burns drove 12,630 miles. If his car averages 15 mi. per gallon of gasoline, and he paid an average of 29.4¢ per gal., including taxes, what was the total cost of the gasoline he used during the year?

Contents

CHAPTER		PAGE
1.	Understanding the Structure and Use of Our Number System	5
2.	Understanding and Using Fractions	25

2. Understanding and Using Fractions 25
3. Understanding and Using Per Cents 45
4. Giving Special Attention to Problem Solving 61
5. Understanding Measures and How to Use Them . . . 73
6. Understanding and Using the Metric System of Measures 89
7. Learning about Lines, Angles, Surfaces, and Solids 101
8. Reading, Understanding, and Using Graphs 121
9. Reading and Constructing Scale Drawings and Maps 133
10. Understanding Budgets and Financial Records 145
11. Using Arithmetic in Buying and Selling 161
12. Understanding Borrowing, Lending, and Investments 181
13. Arithmetic and the Services of Government 201
14. Arithmetic and Taxation 213
15. Understanding and Using Equations 229
16. Understanding and Using Ratio and Proportion 245
17. Thinking about Our Shrinking World 257
18. Evaluating Your Ability in Arithmetic 269

Index 284