

1. A man owned at the beginning of the year \$16,800 worth of real estate and \$3840 worth of personal property. He sold \$9200 worth and bought \$6820 worth during the year. His earnings were \$3450, and his expenses were \$2490. What was the value of his real estate and personal property at the close of the year?
2. A man imported goods from France, invoiced at 500 francs. What was the duty in Canadian money at 30% *ad valorem*?
3. I bought a barrel of kerosene (42 gal.) for 9¢ per gallon. If 25% leaked out, what did it really cost me per gallon?
4. A load of hay weighed 2140 lb.; the cart weighed 430 lb. What is the hay worth at \$18 a ton?
5. How many pieces of wire .005 of a yard in length can be cut from a piece of wire 150 ft. in length?
6. If pine wood is .4 as heavy as water, and a cubic foot of water weighs $62\frac{1}{2}$ lb., how much will a cord of pine wood weigh?
7. If pine wood is $\frac{3}{4}$ as heavy as oak wood, how much will a cord of oak wood weigh?
8. If a cubic foot of anthracite coal weighs $55\frac{1}{2}$ lb., how many cubic feet weigh 1 ton? How many tons will fill a bin 9 ft. long, 4 ft. wide, and 5 ft. 3 in. high?
9. The specific gravity of ice is .92. How many tons of ice can be put into a house 20 ft. long, 12 ft. wide, and 18 ft. high?
10. How many "panes" of fence 8 ft. 6 in. long will it take to inclose a rectangular field 23 rd. $10\frac{1}{2}$ ft. long and 170 ft. wide? How many posts?
11. What is the area of a circular lot of land 160 rd. in diameter? How many feet of fence will it take to inclose the lot? What will be the area of a square lot which the same fence will exactly inclose?
12. A boy bought a bicycle for \$60, and after using it one year sold it at a loss of 30%. The sum that he got for the old bicycle was $66\frac{2}{3}\%$ of what he paid for a new one. What was the cost of the new bicycle?
13. A grain merchant finds that the profits on corn sold during January were \$180. If his profits were 20% of the cost of the corn, what was the amount of sales in corn during the month?