

1. October 31, 1890, I accepted in payment for a house a note for \$3000 payable in 6 months without interest. I immediately had it discounted at $6\frac{1}{2}\%$. What did I really obtain for the house?
2. If \$500 is procured on a 90-days' note not bearing interest, for how much was the note written, discount rate 5% ?
3. Sugar-cane contains about 15% of sugar, beet root 10% , and wheaten flour 8% . On the supposition that one-half of the sugar is lost in the process of manufacture, how many pounds of each will be required to make 200 lb. of sugar?
4. If a cubic inch of water weighs 253.7 grains, and the specific gravity of air is .001292, what will the air of your school-room weigh?
5. What degree upon a centigrade thermometer corresponds to 32° Fahrenheit? 212° F.? 60° F.? 80° F.? When the centigrade marks 20° , what will the Fahrenheit mark?
6. A bar of gold is 20^{cm} long, 40^{mm} wide, and 40^{mm} thick. What is its weight, the specific gravity of gold being 19.36?
7. How many prescriptions of 20 grains each can be put up from 2 lb. 6 $\frac{3}{4}$ 43?
8. If coal gives out 50% more heat than an equal weight of wood, how many cords of wood will give out as much heat as a ton of coal, reckoning the wood to weigh 52 lb. to the cubic foot?
9. The total number of immigrants into the United States during the ten years ending 1890 was 5,238,728. Of these 1,452,952 came from Germany, 649,052 from England, 655,381 from Ireland, 560,483 from Norway and Sweden. What per cent of the whole came from each of these countries?
10. The value of Canadian exports to foreign countries for the year ending June 30, 1899, was \$158,896,905, and of imports from foreign countries was \$162,764,308. The value of exports to England was \$104,707,000, and of imports was \$39,925,635. By what per cent was the excess of imports more than exports? The value of exports to England was what per cent of the entire exports? The value of imports from England was what per cent of the entire imports?