1. Define factor, radius, quotient, numerator, right angle.

2. Copy and add [No credit will be given unless the sum is correct]:

| 68530 | 25980 | 151450 | 183293 | 169664 | 732568 | 465327 | 103339 | 83103 | 38972 | 87654 | 92456 |

3. If the capital of a certain stock company is $60,000 and profits amounting to $6300 are to be distributed among the stockholders, how much profit will there be for each $100 of the stock?

4. A note for $420, dated April 30, 1907, with interest at 5%, is paid in full today, January 26, 1909; find the amount required to pay both principal and interest.

5. a. Multiply 398.69 by 87.96.
   b. Divide 63,843.84 by 9.78. [a and b to have 5 credits each if results are correct.]

6. A broker borrows $7500 in Boston at 4% and purchases a 7 1/2% western mortgage; how much will he gain in 5 years?

7. A flagstaff 40 feet high casts a shadow 30 feet in length; what is the distance from the end of the shadow to the top of the pole?

8. What will be the cost of carpeting the floor of a room 22 ft by 18 ft, with carpet 4 yd wide, at 85¢ a yd?

9. A man insures a house, valued at $3500, for 4 of its value, at 4%: what is his loss if the house burns? What did the insurance cost him?

10. If a bin is 3 m. long, 11.5 dm. wide and 2 m. deep, how many hectoliters of grain will it contain?

11. Make a receipted bill of the following items bought of Frank Jones by William French: 26 pounds of sugar at 5¢ cents a pound; 23 pounds of lard at 7¢ cents a pound; 5 bushels of potatoes at 78 cents a bushel; 3 gallons 2 quarts of molasses at 65 cents a gallon; 4 pounds of rice at 10 cents a pound; 8 pounds of coffee at 33 cents a pound; 3 heads of cabbage at 8 cents a head; 2 bushels 3 pecks of apples at 80 cents a bushel.

12. A man left an estate of $150,240; he willed 1/4 of it to his wife, 1/2 to each of his three daughters, 1/4 to his son and 1/4 of the remainder to each of his two grandchildren. How much did each of the grandchildren receive? Give written analysis.