3. Find the difference between the product and the quotient of 3.125 by .64.

4. How many times can .013 be subtracted from 125.78, and what is the remainder?

5. What must 1562.5 be divided by to give 6250000 as quotient?

6. Subtract .00061765 from .001 and give the answer in words.

7. Divide 02048 by .00003125.

8. Simplify 10.101 × 0001 .000001

9. Simplify  $.04478257 \div 5.48$  $.036 \times 2.043$ 

10. On Monday I spend .5 of my money; on Tuesday .25 of what is left; on Wednesday .125 of what is still left; what decimal part of my money is left on Wednesday night?

ANS. (1) 36445748. (2) .0000-0000951117. (3) 2.8828125. (4) 9675 times and .005 over. (5) .000 25. (6) Thirty-eight thousand two hundred and thirty-five hundred millionths. (7) 655.36. (8) 1010.1 (9) 1/9. (10) .328125.

## PUBLIC SCHOOL LEAVING ARITHMETIC.

BANK DISCOUNT.

1. A note for \$584 drawn June 1st at 3 months is discounted by a bank on June 21st at 6 per cent. per annum; find the proceeds.

2. For what sum must a note be drawn so that when it is discounted at a bank 100 days before maturity at 10 per cent. per annum, the proceeds may be \$639?

3. Find the present value of a bill for 57,051.75, drawn on March 21st at 7 months, discounted on August 12th at  $2\frac{1}{2}$  per cent. per annum.

4. Show that a bill broker who deducts as discount 5 per cent. of the amount of a bill due in 1 year gets  $5^{5}/_{19}$  per cent. per annum for his money.

5. A note for \$143 20 drawn on 13th June, and payable 4 months after date, was discounted on 27th June at 7 per cent. per annum. Find the proceeds.

Ans. (1) \$576.80. (2) \$657. (3) \$7,016 67. (5) \$140.15

PROBLEMS INVOLVING REMAINDERS.

1. If  $\frac{2}{3}$  of a farm is planted with potatoes,  $\frac{3}{4}$  of the remainder with turnips, and  $\frac{1}{2}$  of what still remains is planted with mangolds, what fraction of the field is not planted at all?

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2. A person sold  ${}^{3}/_{4}$  of his land to A,  ${}^{4}/_{5}$  of the remainder to B,  ${}^{5}/_{6}$  of what then remained to C. If there still remained  ${}^{5}/_{6}$  of an acre, find the number of acres he had at first.

3. A man's income is divided as follows :—  $\frac{1}{4}$  in paying groceries,  $\frac{2}{3}$  of the remainder in paying life insurance, and  $\frac{4}{5}$  of what still remains is spent in taxes; what was his income, if he had \$50 left?

4.  $4/_7$  of a farm is given to a man's oldest son;  $2/_3$  of the remainder to the second son, and the remainder to the third son; the second son gets 30 acres more than the third, how many acres in the farm?

5 A man having a certain sum of money, spent \$2 more than  $\frac{1}{4}$  of it, then \$2 less than  $\frac{3}{8}$  of the remainder; then \$1 more than  $\frac{2}{3}$  of what still remained. He has left at the last \$2.25, how much money had he at first?

ANS. (1)  $\frac{1}{24}$  (2) 100 acres. (3) \$1,000 (4) 210 acres. (5) \$19.20.

How would you be,

If He, which is the top of judgment, should

But judge you as you are? Meusure for Measure, ii. 2.