University of the State of New York
75th Examination
ARITHMETIC
TUESDAY, Jan. 20, 1891—9:15 A. M. to 12:15 P. M., only

48 credits, necessary to pass, 36

1. Define division. Tell when the quotient is abstract; when concrete; give an example of each case. 5

2. Write (a) the largest integral number that can be expressed by three figures; (b) the smallest. Write the name of the first period at the right of the decimal point. 3

3. Why is the change of the decimal point two places to the left equivalent to dividing the number by 100? 1

4. Divide 1.2 by .0025 and subtract the divisor from the quotient. 3

5. A had one farm of 104 A 117 sq. rds.; another of 87 A 78 sq. rds. He reserved 40 4 A and divided the remainder equally among his three sons. What was the share of each? 5

6. What will be the cost of a board 12 feet long and 16 inches wide at $30. a thousand feet? 3

7. What is the value of a pile of wood 12 ft. long, 8 ft. wide and 6 ft. high at $4.50 a cord? 3

8. What premium should be paid for insuring, at 1 3/4%, 87 1/2% of a boat load of corn valued at $1800? 2

9. If 12 1/2 yds. of dress-goods 3/4 yd. wide will make a dress, how many yards of cambric, 1 3/4 yd. wide, will be required to line one-half of it? 3

10. A collector charges me 8% commission for collecting debt of $775. How much do I receive? 2

11. A note of $350 for three months was discounted by a bank at 6%. How many pounds of wool at 35 cents a pound, can be bought with the proceeds? 4

12. If 4 men dig a trench 84 ft. long and 5 ft. wide in 3 days of 8 hours each, how many men can dig a trench 420 ft. long and 3 ft. wide in 4 days of 9 hours each? 5

13. If $6 1/2 will buy 7 books how many books will $10 1/2 buy? Solve by analysis and give the analysis in full. 3

14. Find the square root of .00053361. 2

15. Find the cube of (a) $2\frac{1}{2}$, (b) .006. 2

16. From 2.75 metres of cloth were cut 9 decimetres; how much remained? 1