New York State Education Department

204TH HIGH SCHOOL EXAMINATION

ARITHMETIC

Tuesday, June 13, 1911—9.15 a. m. to 12.15 p. m., only

Write at top of first page of answer paper (*a*) name of school where you have studied, (*b*) grade of work completed in arithmetic.

The minimum requirement is the completion of the work of the seventh grade in arithmetic, as outlined in the 1910 syllabus for elementary schools.

Answer question 1 and nine other questions. No credit will be allowed unless all operations (except mental ones) necessary to find results are given; simply indicating the operations is not sufficient. Reduce each result to its simplest form and mark each answer Ans.

1 See separate sheet.

2 Define *five* of the following: factor, prime factor, denominate number, proper fraction, trapezoid, bank discount.

3 *a* Express in figures one million one thousand fifty-six and four hundred twenty-five hundred-thousandths.

b Express 1911 in Roman notation.

4 *a* From $96\frac{3}{7}$ subtract $78\frac{3}{4}$ *b* Multiply $75\frac{3}{4}$ by $25\frac{3}{7}$ *c* Divide 225 by $18\frac{3}{4}$ *d* Divide $25\frac{3}{4}$ by $16\frac{2}{3}$

[$2\frac{1}{2}$ credits allowed for *a*, *b*, *c* and *d* respectively, if correct results are obtained; otherwise no credit allowed.]

5 The cost of food purchased for 12 hens for the six months from April 1 to October 1 was $1.48 per month; during that entire period the owner collected on an average 7 eggs a day; these eggs were sold at $24\frac{1}{2}$ cents per dozen. Allowing 30 days to the month, how much money was gained by keeping the hens?

6 *a* Write the table of (1) time measure, (2) liquid measure.

b If a cubic yard of earth weighs $2787\frac{1}{2}$ lb how many tons will 10 cubic yards and 18 cubic feet of earth weigh?

7 At 21 cents a sq. yd what will be the cost of painting the walls of a kitchen 15 ft long by 12 ft wide by 9 ft 4 in. high?

8 Find the simple interest at 5% on a note for $5375 dated Sept. 15, 1905 and payable June 12, 1911.

9 A grocer bought 625 dozen pound packages of a certain food for $900, less $16\frac{2}{3}$% discount; he sold each package for 16 cents. How much did he gain in all?

10 *a* The triangular gable of a house has a base 13 ft and an altitude $10\frac{1}{2}$ ft; find the area of the triangle.

b Compute the cost of fencing a field 58 rd $12\frac{1}{2}$ ft long and 39 rd wide, if the fence costs $3.25 per rd.

11 *a* In a certain quantity of milk the ratio of the cream to the rest of the milk is as 2 to 9; how many pounds of cream are there in 253 pounds of the milk?

b The inside dimensions of a car are 36 ft by 8 ft by 4 ft; find the cost of a car load of oats at 31 cents per bu.

12 Make out and receipt a bill for the following: Ford Travis bought of Welch & Co. 41 lb of butter at 38 cents a lb; 3 bu. of potatoes at 87 cents a bu.; 12 bars of soap at $6\frac{1}{4}$ cents a bar; $3\frac{1}{4}$ lb of prunes at 20 cents a lb.

NAME OF SCHOOL

NAME OF CANDIDATE

Fill above blanks before signal to turn paper is given by examiner.

Do not turn this sheet over till the signal is given.

Examiner will place test face down on desk of each candidate. Candidate will turn the sheet and begin solving the examples at signal from the examiner, placing all the work and the results on the sheet. Both examples must be solved. At end of 15 minutes work must stop and all papers must be collected.

Five credits will be allowed for each correct answer. No credit will be allowed unless the answer is correct and all work is given.

ARITHMETIC COMPUTATION TEST

[Fifteen minutes allowed for this question]

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1 *a* Add

$481.62
1834.26
563.91
4.87
6547.82
1.60
63.72
5874.62
932.15
57.86
2345.45
571.56
52.28
751.82
7456.05
400.00
99.89
725.12

b Divide 322,560 by 672