ARITHMETIC

Tuesday, January 16, 1912 — 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 Write in words *each* of the following: (*a*) 90,909, (*b*) 125.00036, (*c*) $149\frac{2}{40}$, (*d*) 500,000,000, (*e*) XCIV.

3 A farmer sold 200 bushels of potatoes at 75 cents a bushel, 10 dozen eggs at 24 cents a dozen and 40 pounds of butter at 30 cents a pound; he invested $\frac{2}{6}$ of the proceeds in coal and deposited the balance in the bank. How much money did he deposit?

4 *a* Reduce $\frac{720}{864}$ to its lowest terms.

 b Express .625 and .0625 as common fractions in their lowest terms.

5 Perform *each* of the following operations:

 a $7 \times \frac{5}{6}$ *d* $\frac{5}{7} \div \frac{5}{6}$

 b $19 \div \frac{3}{4}$ *e* $\frac{3}{11} \div 4$

 c $\frac{5}{8} \times \frac{2}{3}$

6 Find the cost, at $25 per thousand, of 100 boards, each 18 ft long, 8 in. wide and $\frac{1}{2}$ in. thick.

7 A dealer bought 300 tons of ice for $750; he sold the ice at the rate of 25 cents per hundred pounds. Find (*a*) how much he gained, (*b*) what per cent he gained.

8 Charles Jones bought of the George N. Johnson Company an automobile for $4000; he paid $2500 in cash and for the balance gave a promissory note for 3 months, with interest at 5%. Write the note, dating it January 15, 1912.

9 Find, at date of maturity, the interest at 6% on a note for $375, dated June 15, 1907 and payable September 27, 1912.

10 Richard, James and Henry formed a partnership to sell fruit; Richard invested $48, James $60 and Henry $72. If they gained $60 the first week what was each partner's share of the profit?

11 Extract the square root of 44,521.

12 A man purchased a house for $5000; the first year the expense for repairs was $45, for taxes $75, for insurance $10. If the house was rented for $40 a month what per cent did he gain on his investment that year?

NAME OF SCHOOL

NAME OF CANDIDATE

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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* $36.49 \times 8.79 =$

b   Find the sum of the following:

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$ 6 6 7 . 8 1
  4 5 8 . 6 0
      6 . 8 4
  7 2 1 . 5 0
  5 7 0 . 6 0
   9 7 . 2 1
  8 3 4 . 7 2
   9 2 . 3 7
      8 . 2 9
   1 2 . 1 6
  4 5 4 . 2 3
   1 8 . 5 2
   7 5 . 9 0
  9 3 6 . 2 5
      1 . 7 8
   4 5 . 6 7
  7 4 8 . 1 5
   5 4 . 4 4
  3 7 2 . 2 4
  1 2 3 . 3 3
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