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 10 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.*

*Questions 2 and 4 are given to test the accuracy of the pupil. No credit, therefore, will be allowed if the results are not correct.*

1 See separate sheet.

2 Solve    *a*   $6\frac{3}{4} + 9\frac{1}{8} + 17\frac{5}{12}$      *c*   $6\frac{2}{3} \times 4\frac{1}{5}$

          *b*   $19\frac{1}{3} - 8\frac{5}{6}$         *d*   $5\frac{1}{3} \div 2\frac{2}{3}$

Solve by cancelation $24 \times 36 \times 144 \times 96 \div 12 \times 18 \times 48 \times 84$

[2 credits will be allowed for each correct result.]

3 Write in words (*a*) $\frac{13}{25}$, (*b*) 153926, (*c*) 201.293

Subtract $\frac{1}{10}$ from .1.    Multiply $\frac{3}{10}$ by .3.

4 Change these per cents to equivalent common fractions in their simplest forms, showing all the work:   $6\frac{1}{4}\%$, $3\frac{1}{8}\%$, $120\%$, $\frac{1}{2}\%$, $.2\%$.   [2 credits will be allowed for each correct result.]

5 The standing of a seventh grade pupil in arithmetic was as follows: Sept. 89%, Oct. 85%, Nov. 91%, Dec. 85%, Jan. 96%, Feb. 87%, Mar. 89%, Apr. 97%, May 96%, June 88%; what was his average standing for the year?

6 Find the compound interest on $420 for 2 years at 4%, if the interest is compounded semiannually.

7 One side of a square field is 40 rods long; how many acres are there in this field? What will it cost to fence it at 70¢ a rod?

8 A note for $500, without interest, is payable in 90 days; on the day the note is made it is discounted at a bank at 6%. Find the proceeds.

9 A family use $2\frac{1}{3}$ pounds of butter a week for a month of 30 days; at 35¢ a pound, how much will the butter cost?

10 Make a receipted bill for the following: C. A. Bryant bought of Harris, Smith & Co., Troy, N. Y., 37 bu. of oats at $.40; 50 bu. of corn at $.67½; 76 bu. of wheat at $1.04¼; 75 bu. of rye at $1.04; 95 bu. of beans at $4.00; 16 bu. of potatoes at $.95. [Date the bill today.]

# ARITHMETIC COMPUTATION TEST

[Twelve minutes allowed for this question]

Tuesday, June 17, 1913—9.15 a. m. to 12.15 p. m.

1 *a* Add

$b$ Multiply

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  2 9 7 6 4
  8 3 2 1 5
  6 4 2 9 1
  3 7 8 4 9
  8 2 1 5 6
  7 4 6 3 9
  8 4 6 3 7
  6 9 1 8 2
  3 5 7 4 9
  2 1 8 5 4
  7 9 3 2 7
  6 8 2 9 8
  6 1 5 4 3
  2 9 8 7 6
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  6 9 8
  7 5 4
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$c$ Divide

$$679)5798660($$