

ARITHMETIC

Friday, June 10, 1910—9.15 a. m. to 12.15 p. m., only

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

The completion of the work of the eighth grade in arithmetic, as outlined in the syllabus for elementary schools, is the regular requirement, and any statement showing less or other than this should be accompanied by a satisfactory claim or explanation made by the candidate and certified by the principal; otherwise such paper will be returned.

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 a Write in words the following: 125,000; 38.25; 25,000,000; .0025; 5,005,005.
b Express in figures:
Six hundred twenty thousand four and eight ten-thousandths
Five and five millionths
Seventeen thousand two and six hundred twenty-five thousandths
Ten million
Seventy thousand four hundred sixty.
- 3 a Express in decimal form $\frac{1}{2}\%$, $\frac{1}{3}\%$, 50%, $87\frac{3}{4}\%$, 105%.
b Express as per cents: .98375; 2.50; .0025; 1.00; .625.
- 4 If .125 of an acre of land is worth \$15.87 $\frac{1}{2}$, how much are 25.43 acres worth?
- 5 A boy bought apples at the rate of 12 for 3¢ and sold them at the rate of 6 for 3¢; how many must he sell to gain \$6?
- 6 John Ferguson bought of Baker & Co. 300 pounds of nails at 3 $\frac{1}{2}$ cents per pound, 4 doz. sleds at \$18 per doz. and 5 doz. lawn mowers at \$35 per doz. Make out a receipted bill.
- 7 A field is 320 rods long and 150 rods wide; find (a) the number of acres in the field, (b) the cost of fencing at \$1.65 per linear rod; illustrate. [2 credits allowed for illustration.]
- 8 Soap that a druggist bought at \$1.20 a dozen cakes is so damaged that he has to sell it for 8 cents a cake; what was his per cent of loss and what was his loss on 165 dozen?
- 9 How much will it cost to excavate a ditch 180 ft long, 4 ft wide and 6 ft deep at 69 cents a cubic yard?
- 10 Write (a) two tables of the metric system, (b) a promise note.
- 11 A wholesale dealer offers two successive discounts of 20% and 5% on a bill of goods; what single discount would be equivalent to these two successive discounts?
- 12 Find the amount of a note for \$640.50 dated April 9, 1908 and paid June 7, 1909, with interest at 5%

ARITHMETIC COMPUTATION TEST

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a Add

\$1564.67
 5.92
 239.67
 67.32
 445.81
 19.56
 3568.25
 427.49
 36.34
 197.72
 6320.55
 181.13
 75.80
 820.70
 56.48
 2671.41
 8.65

b Divide 889,072 by 362