University of the State of New York 219TH HIGH SCHOOL EXAMINATION

ARITHMETIC

Tuesday, January 20, 1914-9.15 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 i and nine of the others. 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.

I bee separate sheet.

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- What fractional part of a dollar is each of the following: 121 cents, 16% cents, 5 cents, 331 cents, 75 cents, 10 cents, 371 cents, 20 cents, 25 cents, 66% cents?
- 3 Write in figures: (a) five hundred seven thousandths, (b) three thousand one hundred and six hundredths, (c) XLVII,

Write in words; (a) 45.706, (b) 90 fz

- 4 A tank measuring 24 ft by 8 ft by 10 ft is half full of water; what is the weight of the water in tons? [A cubic foot of water weighs 621 pounds,]
- 5 The Empire State Express leaves Buffalo at 1 p. m. and arrives in Albany at 6:57 p. m.; the distance is 296,53 miles. What is the average number of miles per hour made by the train?
- 6 Mr Brown sent to a commission firm 480 bushels of potatoes and 500 bushels of beans; the potatoes were sold at 72 cents a bushel and the beans at 98 cents a bushel; the firm charged 21% commission. What amount was sent to Mr Brown?

7 A merchant buys a bill of goods amounting to \$850, with discounts of 20% and 5%; find the net amount of his bill.

- 8 On Jan. 1, 1913 William Jones bought of Henry Abel a bill of goods amounting to \$500, for which he paid by giving his note due March 15, 1913, with interest at 5%. Write the note. Compute the interest on the note when due,
- 9 A wire attached to the top of a pole 30 feet high reaches the ground 40 feet from the bottom of the pole; how long is the wire if the pole stands in a level field?
- 10 A quart of floor varnish will cover a space of 150 square feet; how much will it cost, at \$2.80 a gallon, to varnish two floors whose dimensions are one 18 ft by 15 ft and the other 15 ft by 12 ft?
- 11 Define each of the following: improper fraction, commission, discount, square root of a number, radius,
- Write the following tables of measures; linear, liquid, avoirdupois, dry.

ARITHMETIC COMPUTATION TEST

[Ten minutes allowed for this question]

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7 4 3 5 7

b Subtract

1 5 1 6 9

c Divide

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