195TH HIGH SCHOOL EXAMINATION

ARITHMETIC

Tuesday, June 16, 1908—9.15 a. m. to 12.15 p. m., only

Answer 10 questions. *Give all operations (except mental ones) necessary to find results. Reduce each result to its simplest form and mark it Ans.*

1 Define interest, longitude of a place, brokerage, gram, power of a number.

2 Copy and add [No credit will be given unless the sum is correct]:

4368	5962	6857	7976	8795	9874	2345	9876	1234	5678	9123	7654	8912	6789	5432
8973	9876	5432	1234	5678										

3 A man travels 360 miles in 12 days; at the same rate how far will he travel in 21 days? [Give written analysis.]

4 Find the simple interest on $3562.25 from January 28, 1908 to June 18, 1910 at 4½%.

5 Taking the two numbers 445.3 and .073 find (*a*) their sum, (*b*) their difference, (*c*) their product, (*d*) the quotient of the first divided by the second. [*a*, *b*, *c* and *d* to have 2½ credits each if results are correct.]

6 A corner lot has 96 feet front and is 180 feet deep; find the cost of laying a 4-foot stone walk on the front and side at 18 cents per square foot. [Draw a diagram of the lot and walk.]

7 A boy bought oranges at 20 cents per dozen and sold them at the rate of 2 for 5 cents; what per cent did he gain?

8 Which is the better for the purchaser and how much: two successive trade discounts of 25% and 10% on a bill of $500 or a single discount of 33⅓%?

9 The total assessed valuation of a certain school district was $2,559,000; the amount to be raised by tax was $11,515.50. Find the amount of tax on a block assessed at $85,000.

10 A horse tied to a stake can reach the grass 30 feet in any direction from the stake; over how many square feet of land can the horse graze?

11 If the distance between two places is 320 km., how many miles is it? [A meter is approximately 39.37 inches.]

12 Two stockmen maintain a common drinking trough; they share the annual cost of repairs according to the number of cattle owned by each. A has 1253 head of cattle and B has 2747. The annual cost of repairs is $80. How much should each pay?