

## 193D HIGH SCHOOL EXAMINATION

## ARITHMETIC

Friday, September 27, 1907—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. Each complete answer will receive 10 credits. Papers entitled to 75 or more credits will be accepted.*

1 Add 149 sq. rd. 28 sq. yd. 7 sq. ft., 59 sq. rd. 19 sq. yd. 8 sq. ft., 115 sq. rd. 23 sq. yd. 6 sq. ft.

2 Find the simple interest at  $3\frac{1}{2}\%$  of \$56.75 from June 21, 1905 to March 8, 1907.

3 A grocer bought a chest of tea containing 240 pounds for \$182.40 and sold it @ 85¢ a pound; find his gain per cent.

4 Find the cost @ \$17.50 per M of 17 planks 15' long, 16' wide and  $2\frac{1}{4}$ ' thick.

5 Find the net amount of a bill for \$1240 subject to successive discounts of 10%, 14% and  $12\frac{1}{2}\%$ .

6 Find the cost, @ 49¢ a square yard, of plastering the walls and ceiling of a room 17' x 15' and  $10\frac{1}{2}$ ' high, allowing 117 square feet for doors and windows.

7 An agent's commission of 10% on the sale of 94 bushels of corn was \$8.11; find the selling price a bushel of the corn.

8 The proceeds of a 60 day note discounted at 6% 28 days after date is \$566.96; find the face of the note.

9 What per cent does  $5\frac{1}{2}\%$  stock yield if bought at  $114\frac{1}{2}$ , brokerage  $\frac{1}{4}\%$ ?

10 At the end of 4 years a man has paid \$150 for insuring a house for \$5000; find the annual rate of insurance.

11 In 18 days 27 men can do a piece of work; in how many days can 24 men do the work?

12 Simplify  $\frac{4 - 1\frac{1}{2} \div \frac{1}{2}}{\frac{1}{4} - \frac{1}{2} \times \frac{1}{4}}$