194TH HIGH SCHOOL EXAMINATION ARITHMETIC

Tuesday, January 28, 1908-9.15 a. m. to 12.15 p. m., only

Answer 10 questions. Give all operations (except mental ones) neces-

Answer to guistions. Reduce each result to its simplest form and mark it Ans.

1 Define liter, bank discount, prime number, par value,

3 Find the cost of the following pieces of hemlock lumber at \$20 per thousand: 3 scantlings 2 inches by 4 inches by 12 feet

4 planks 2 inches by 12 inches by 12 feet 5 sills 12 inches by 12 inches by 12 feet

4 New York is 74° 0′ 3′ west longitude and Chicago is 87° 37′ 30′ west; when it is noon in New York what is the time in

Chicago?

5 Solve the following [a, b, c, d] to have $2\frac{1}{4}$ credits each if

results are correct. No credit given for incorrect answers]: $a 31\frac{1}{4} - 18\frac{1}{4} = ?$ $b 2\frac{1}{4} + 5\frac{1}{4} + \frac{2}{3} + 6\frac{2}{3} = ?$

0 247 + 33 + 3 + 3 + 63 = ? c 184 × 23 k = ? d 43 + 128 = ? Find the simple interest on €921.35 from September 1, 190

6 Find the simple interest on \$921.35 from September 1, 1906 to January 27, 1908 at 5%.
7 How many hectoliters of water will a cistern hold that is 6 m long, 4 m 5 dm wide and 3 m deep?

8 Find the cost of a bill of goods amounting to \$3500 from which the following successive trade discounts were allowed: 37%, 4%.
9 A dealer pays \$30 for a case of shoes containing six pairs:

if he sells the shoes for \$6.50 per pair what per cent does he make? [Give written analysis.]

nake? [Give written analysis.]

10 Find the square root of 1,199,025.

11 A, B and C engage in business, A investing \$2000, B \$8000 and C \$10,000; find each partner's share of a gain of \$2800.

12 A cubic block of wood measures 4 feet each way; find

12 A cubic block of wood measures 4 feet each way; find (a) its entire surface, (b) its weight on the basis of 32 pounds to the cubic foot.