189. What is the compound interest of $200 for 3 years at 7 per cent?

190. How much gold will $100 currency buy, gold being at 147?

191. What is the square root of 403.6081?

192. What is the cube root of $\frac{10648}{64000}$?

Examination IX. June 11, 1869.

193. The factors of a number are three hundred ninety-seven thousand five hundred, and nine thousand eight hundred. What is the product expressed in words?

194. If one man can mow 1.875 acres in a day, how many acres can 13 men mow in 7.5 days?

195. How many reams of commercial note paper each 8 in. long, 5 in. wide, and 3.5 in. thick, can be packed in a box, the inside dimensions of which are $41\frac{2}{3}$, and $\frac{7}{12}$ feet respectively?

196. A note given May 10, 1867, was paid August 10, 1868. How long did the note run?

196*a*. How long is a field containing 14 A., if it is 35 rd. wide?

197. If I start from latitude 15° 35′ 40″ north, and travel due north 2,159 geographic miles, in what latitude shall I then be?

198. How many seconds in the circumference of a circle?

199. Is 217 a prime or a composite number?

200. The four sides of my garden are 168 ft., 280 ft., 182 ft., and 252 ft. respectively: what is the great-

est length of boards that I can use in fencing it, without cutting any of them?

201. What is the smallest sum of money for which a person can purchase oxen at $85 each, or cows at $35 each?

202. The tide rose $\frac{5}{6}$ ft. one hour, $1\frac{3}{8}$ ft. the next, and $\frac{3}{4}$ ft. the third hour: how much did it rise in the three hours?

203. How many square rods are there in a lot $15\frac{4}{9}$ rods long, and $12\frac{6}{7}$ rods wide?

204. If $8\frac{2}{3}$ qt. of strawberries cost $\$\frac{39}{50}$, what is the price per qt.?

205, The product of three factors is $19\frac{1}{2}$, and two of them are $1\frac{4}{5}$ and $2\frac{1}{8}$: what is the other.

206. Reduce 4 da. 4 hr. 48 mi. to the decimal of a week.

207. If 5 tons of coal are equal to 9 cords of wood for fuel, and a family burns 31.5 cords of wood in a year, how much will they save by changing from wood to coal, when wood is worth $4.25 per cord, and coal $6.80 per ton?

208. When it is 12 o'clock M. at St. Paul, 93° 10′ W. Longitude, what is the time at Richmond, 77° 27′ W. ?

209. Reduce .06875 to the form of a common fraction and to its lowest terms.

210. 24 is $\frac{3}{8}$ per cent. of what number?

211. What will $25,390 amount to in 7 mo., at 10 per cent?

212. When gold is worth 124, what amount of currency can be bought for $5,400 in gold?

213. A's property is assessed at $6,750, and B's at $13,575. A's tax is $52.65: how much is B's?

214. Find the unknown term in the following proportion:

$7\frac{1}{2} : 6\frac{1}{4} : : \text{——} : 5$

215. Find the unknown term in the following proportion:

$$\left.\begin{matrix} 7 : 21 \\ 4 : 8 \end{matrix}\right\} :: 3 : \text{——}$$

216. What is the square root of 1127750724?

Examination X. Nov. 11, 1869.

217. Add in figures, LXVI, MDXIX, CCIV, XVIII.

218. From sixty-eight million nine hundred thousand and six, take seven million two hundred thousand and two.

219. Six hundred and four is one factor, ninety-six thousand and seventy-three is the other: what is the product?

220. Which term in division corresponds with the product in multiplication?

221. Give the method of proving division.

222. Resolve 7498 into its prime factors.

223. Find the greatest common divisor of 505, 707, and 4343.

224. Of what is the least common multiple of several numbers the product?

225. Find the smallest number that exactly contains 78, 156 and 390.