
Examination XI. Feb. 11, 1870.

241. Multiply twenty-nine million two thousand nine hundred and nine, by four hundred and four thousand.

242. Divide 478656785178 by 56789.

243. Prove that the quotient of 478656785178 divided by 5678 is $8428688\frac{2}{3}\frac{2}{7}\frac{4}{9}\frac{6}{5}$.

244. A gem weighing 2 oz. 18 pwt. 12 gr. was sold for \$1.37 per grain: what was the sum paid?

245. Venus is at a certain time 3 S. 18° 45' 15" east of the sun; Mars, 7 S. 15° 36' 18" east of Venus; Jupiter, 5 S. 21° 33' 27" east of Mars: how far is Jupiter east of the sun?

246. What is the least common multiple (or dividend) of 3, 4, 5, 6, 7 and 8?

247. What is $\frac{7}{8}$ of $\frac{9}{11}$ of $\frac{3}{8}$ of $\frac{4}{7}$ expressed in lowest terms?

248. Add $\frac{1}{9}$ of $\frac{2}{3}$ to $\frac{1}{3}$ of $\frac{7}{10}$.

249. Divide $81\frac{1}{7}$ by $9\frac{1}{5}$.

250. What is the greatest common divisor of $\frac{2}{3}$, 5-6, and 1 1-8?

251. Multiply eighty-seven thousandths by fifteen millionths.

252. What decimal fraction is equivalent to $\frac{7}{16}$?

253. Reduce 6 fur. 8 rd. to the decimal of a mile.

254. What is the value of .815625 of a pound Troy expressed in oz. pwt. and gr.?

255. If \$800 gain \$32 in 8 mo., what is the rate per cent?

256. If a man travels 117 miles in 15 days, employing only 9 hours a day, how far would he go in 20 days, travelling 12 hours a day?

257. What is the square root of 9754.60423716?

258. If the extremes are 11 and 74, and the common difference 7, what is the sum of the series?

259. A man having \$10,000, lost 15 per cent. of it; what sum had he left?

260. What is the interest of \$850 for 1 year 7 mo. 18 days, at 7 per cent?

261. How long must \$165 be on interest at 6 per cent. to gain \$14.85?

262. What is the present worth of \$477.71, due 4 years hence, discounted at 6 per cent?

263. What is the present worth of a note for \$875.-35, payable in 7 mo. and 15 days, discounted at bank at 7 per cent?

264. If 29 lb. of butter will purchase 40 lb. of cheese, how many pounds of butter will buy 79 lb. of cheese?

Examination XII. June 9, 1870.

265. Numerate, read or express in words 8096392-702.

266. Find the sum of $\left\{ \begin{array}{r} 91784 \\ 794380 \\ 400084 \\ 5631 \\ 79840 \\ 957001 \\ 849987 \\ 451786 \\ 4670 \\ 501 \end{array} \right\} \left| \right.$

267. 2579584239456—249187654116 = ?

268. Multiply four hundred and sixty-two thousand six hundred and nine, by itself.