EIGHTH DEPARTMENT.

PAPER XXXI.

301. What is a concrete number ? An abstract number ?

302. Show that a unit is not necessarily a single thing.

303. Why do we begin at the unit's place in the addition of numbers?

304. How may the accuracy of the process of subtraction be verified ?

305. Any number is divisible by 9 if the sum of its digits be divisible by 9. Why?

306. The product of the greatest common measure and least common multiple of two numbers is equal to the product of the two numbers. Why?

307. Compare the *metric* system of weights and measures with the system in general use.

308. Prove the rules for multiplication and division of fractions.

309. Show that the true discount of any sum of money is the true present worth of the bank discount for the same time and rate.

310. Prove that a number will be divisible by 11 if the sum of the digits in the even places differs from that in the odd places by a multiple of 11.

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