paid \$55 on account. Make out his bill in proper form, showing balance due.

447. At 35 c. per sq. yd., what would it cost to plaster a wall 15 ft. high and 54 ft. long?

448. How much wood in three piles, the first of which contains 10 cd. 6 cd.ft. 4 cu.ft., the second, 12 cd. 12 cu.ft.; the third, 17 cd. 1 cd.ft?

449. Divide the sum of five thousand and two thousandths, by two hundredths.

450. \$10 is 12 per cent. of what number?

451. What is the amount of \$2,160 from March 10 to Dec. 1, at 5 per cent?

452. How much must be invested at 7 per cent. simple interest, to yield an annual income of \$630?

453. A note for \$1,800, payable in 60 days, was discounted at bank at 6 per cent.: how much did the holder receive?

454. What cost 9 hats, if 5 hats cost £4,5s?

455. If the wages of 6 men for 14 days are \$126, what, at the same rate, would be the wages of 9 men for 16 days?

456. Extract the square root of 6.5536.

Examination XX. Feb. 27, 1873.

457. Write in words the number represented by the figures: 20463162486135.

458. Express in figures: fifty-seven billions fifty-nine millions ninety thousand and forty-seven.

- 459. Add 75. 2000 88. 2000 89. 2000 88. 2000 88. 2000 88. 2000 88. 2000 88. 2000 88. 2000 88.
- 460. From 501505010678 take 794090589.
- 461. Multiply ninety thousand eight hundred and seven, by nine thousand one hundred and six.
- $462,\ 18\ A.\ 0\ R.\ 14\ p.$ equal how many square feet?
 - 463. 31557600 seconds equal how many days?
 - 464. From 61 S. 15° 36′ 15″ take 53 S. 18° 50′ 18″.
- 465. If 84 loads of hay weigh 201 T. 6 cwt. 0 qr. 12 lb., what will 5 loads weigh?
 - 466. What are the prime factors of 19965?
- 467. Find the least common multiple of 3, 4, 5, 6, 7, 8.
- 468. Reduce $\frac{5}{7} \times \frac{3}{15} \times \frac{4}{15} \times 8\frac{3}{4} \times \frac{11}{5}$ to a simple fraction of the lowest terms.
- 469. Reduce $\frac{4}{9}$, $\frac{2}{3}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{6}$ and $\frac{1}{12}$ to equivalent fractions having the least common denominator.
 - 470. What is the sum of $\frac{3}{4}$, $\frac{5}{6}$, $\frac{3}{8}$, and $\frac{1}{12}$?
- 471. Divide $116\frac{3}{7}$ by $14\frac{1}{7}$. (Give the answer as a mixed number, with its fraction of the lowest terms.)
- 472. Reduce $\frac{4}{7}$ of a grain to the fraction of a pound Troy.
- 473. Paid \$4,355.52 for 49\\$ pieces of carpeting: what would 37\\$ pieces cost, at the same rate?
- 474. Multiply eighty-seven thousandths by fifteen millionths.
 - 475. What decimal fraction is equivalent to 76?
 - 476. What is 5 per cent. of \$789?
- 477. What is the interest of \$1,165.50, for 5 yr. 3 mo. 9 d. at 7 per cent?

478. What is the bank discount on \$780 for 30

days?

479. If A. travels 117 miles in 15 days, employing 9 hours a day, how far would he travel in 20 days, travelling 12 hours a day (at the same rate per hour)?

480. What is the square root of 23804641?

Examination XXI. June 5, 1873.

- 481. Write 1873 in Roman characters.
- 482. What is Notation?
- 483. Write in words: 9008007006
- 484. To what number must 962 oe added three times to make 8472?
- 485. \$9,843.621 plus \$4,687.32 plus \$84.321 plus \$.07 plus \$.64 plus \$973.241=?
- 486. Reduce 53684" to numbers of higher denominations.
- 487. Reduce .8975 of a week to whole numbers of lower denominations.
 - 488. What cost $10\frac{3}{5}$ tons of coal, at \$7\frac{5}{6}\$ a ton?
 - 489. $108 \div \frac{12}{17} \times \frac{7}{11} \frac{2}{8} = ?$
- 490. Find the least common multiple of 12, 16, and 28.
- 491. Reduce $\frac{13}{13}$, $\frac{12}{27}$, and $8\frac{5}{6}$ to the least common denominator.
- 492. A cubic foot of granite weighs 163 lb. 5 oz.; what is the weight of a block 3 ft. 2\\$ in. long, 2 ft. 4 in. wide, and 1 ft. 3 in. thick?