

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 be 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 $10\frac{3}{8}$ tons of coal, at \$7 $\frac{5}{8}$ a ton?
489. $108 \div \frac{12}{7} \times \frac{7}{11} - \frac{2}{3} = ?$
490. Find the least common multiple of 12, 16, and 28.
491. Reduce $\frac{13}{8}$, $\frac{12}{7}$, and $8\frac{5}{8}$ 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. $2\frac{3}{4}$ in. long, 2 ft. 4 in. wide, and 1 ft. 3 in. thick?

493. How many linear yards of carpeting $1\frac{1}{2}$ yd. wide will cover a floor 18 ft. square?

494. When snow is uniformly 6 inches deep, how many cubic feet are there on one acre of land?

495. Charles Fuller bought of James Monroe, at West Troy, N. Y., May 4, 1873, 1 horse for \$95, 2 cows at \$50 each, 1 wagon for \$62, 2 shovels at \$1.12 each and 30 bushels of corn at \$0.65 per bushel, paying cash in full. Make the bill in due form.

496. A cistern can be emptied by 7 pipes of equal capacity in 55 minutes: in what time can it be emptied if only 5 pipes are open?

497. If 12 per cent. of \$97.50 be lost, what amount will remain?

498. What is the simple interest of \$200 for 4 yr. 6 mo. 3 d., at 7 per cent?

499. Find the bank discount of \$1,000 for 3 mo. at 7 per cent.

500. If 9 lb. of lead make 150 bullets, how many bullets can be made from 105 lb.?

(Solve by proportion and cancellation.)

501. If the wages of 75 boys for 84 days were \$68.75, how many days could 90 boys be employed at the same rate, for \$41.25?

(Solve by double proportion.)

502. What is the difference between the square and the cube of 24?

503. What is the square root of 253009?

504. $\frac{1}{3}$ of a number exceeds $\frac{1}{5}$ of it by 20: what is that number?