620. A boy bought eggs at the rate of 3 for 5 cts., and sold them at the rate of 4 for 7 cts., clearing 9 cts.: how many did he buy?

(Solve by analysis.)

621. A commission merchant sold 500 pieces of cloth for $30 a piece, and paid the owner $14,700: what was the rate of his commission?

622. A store was insured for $12,000 at the rate of ½ per cent., and the goods for $15,000, at 1¼ per cent: what was the entire premium?

623. What will be the proceeds of a note for $1,000, without interest, payable at bank in 60 days, at 6 per cent?

624. A man being asked his age, replied, if you add to its half, its third and three times three, the sum will be 130: what was his age?

Examination XXVII. June 3, 1875.

625. The quotient is 71, the divisor 42, and the remainder 15: what is the dividend?

626. What will be the cost of 2,760 lb. of hay at $8.50 per ton?

627. From 17½ take ⅜ of 16½, and multiply the remainder by ⅜.

628. A lady bought 6 silver spoons, each weighing 3 oz. 3 pwt. 8 gr., at $2.25 an oz., and a gold chain weighing 14 pwt. at $1.25 a pwt.: what was the cost of both spoons and chain?
629. From 15 ten-thousandths take 27 millionths, and multiply the difference by 20.5.

630. Reduce 6.25 of a pound Troy to lower integers.

631. How many seconds are there in the three summer months?

632. How many acres are there in a street 4 rods wide, and $2\frac{1}{2}$ miles long?

633. Reduce 4s. 6d. to the decimal of a £ sterling.

634. A quantity of sugar was bought for $150, and sold for $167.50: what was the gain per cent?

635. Mrs. C. B. Jones bought of Cole, Steel & Co., of Detroit, as follows: Nov. 12, 1874, 23 yd. calico, @ 16c.; 45 yd. sheeting, @ 20c.; Dec. 7, 12 yd. silk, @ $1.62\frac{1}{2}; 8$ handkerchiefs, @ 45c.; 2 pairs kid gloves, @ $1.87\frac{1}{4}$. Make bill for Jan. 1, 1875, and receipt the same, as clerk of the firm.

636. What is the interest of $125.50 for 7 mo. 10 da. at 7 per cent?

637. A note for $500, dated Oct. 8, 1873, and bearing interest at 9 per cent., is endorsed as follows: Nov. 4, 1874, $30; Jan. 30, 1875, $250. What will be due July 1, 1875?

638. What is the true discount on $236, due in 3 years, at 6 per cent?

639. What is the bank discount on $125 payable in 90 days, at 8 per cent?

640. Two men divided a lot of wood costing $81, one taking $5\frac{1}{2}$ cords, and the other the remaining 8 cords: what must each pay? (Solve by analysis.)

641. What is the square root of 416.16?
642. How many gallons of water will a cistern hold which is 7 ft. long, 6 ft. wide, and 11 ft. deep?

643. A. can mow 2 acres in 3 days, and B. 5 acres in 6 days: in how many days can they together mow 9 acres?

644. A house valued at $3,240 is insured for \( \frac{3}{4} \) of its value, at \( \frac{1}{2} \) per cent.: what is the premium?

645. How many bricks will it require to build a wall 2 rd. long, 6 ft. high, and 18 in. thick, each brick being 8 in. long, 4 in. wide, and 2½ in. thick?

646. If the wages of 24 men for 4 days are $192, what will be the wages of 36 men for 3 days?

(Solve by double proportion and cancellation.)

647. At what rate per cent. will $311.50 amount to $337.40 in 1 year 4 mo.?

648. What will it cost to lay a pavement 36 ft. long, and 9 ft. 6 in. wide, at 40 cts. a sq. yd.?

---

Examination XXVIII. Nov. 4, 1875.

649. Express in words the number: 42567000129301.

650. Multiply five hundred and forty thousand six hundred and nine, by seventeen hundred and fifty.

651. Give the rule for reduction ascending (i.e. from lower to higher denominations), and state how this process chiefly differs from reduction descending.

652. How many steps of two and one-half feet each, would a man take in walking five miles?

653. How is a whole number reduced to a fraction of the same value, having a given denominator?