

896. Three men gain \$2,640, of which B. is to have \$6 as often as C. \$4 and A. \$2; what is each one's share?

897. Find the square root of 10795.21.

898. What is the length of one side of a square piece of land containing 40 acres?

899. How is the true discount of a note found?

900. How is the bank discount of a note found?

901. How is the present worth of a note payable at a future time without interest, found?

Examination XXXVII. Nov. 7, 1878.

902. Write in figures: two hundred thousand two hundred.

903. A man owns farms valued at \$56,800; city lots valued at \$86,760; a house worth \$12,500; and other property, \$6,785; what is the entire value of his property?

904. Bought 325 loads of wheat, each load containing 50 bu. at \$2 a bu. What did the wheat cost?

905. Find the greatest common divisor of 679 and 1,869.

906. Find the least common multiple of 4, 16, 20, 48, 60, and 72.

907. What is the *value* of a fraction?

908. Find the value of 12-1250.

909. If the divisor is less than a unit, how will the quotient compare with the dividend?

910. Divide 63 by $\frac{7}{1\frac{2}{3}}$.

911. Find the difference between the continued products of 3, $\frac{7}{8}$, $\frac{2}{3}$, $4\frac{2}{5}$, and $3\frac{7}{8}$, $\frac{2}{5}$, 4, $\frac{2}{5}$.

912. If 36.48 yd. of cloth cost \$54.72, what will 14.25 yd. cost?

913. A goldsmith manufactured 1 lb. 1 pwt. 16 gr. of gold into rings, each weighing 4 pwt. 20 gr. He sold the rings for \$1.25 apiece; how much did he receive for them?

914. How many times will a wheel 16 ft. 6 in. in circumference turn round in running 42 miles?

915. What is the value of $\frac{5}{8}$ of a hogshead, in integers of lower denominations?

916. Washington is $77^{\circ} 2' 48''$ west, and St. Petersburg $30^{\circ} 19'$ east longitude; what is their difference of time?

917. What is $9\frac{1}{5}$ per cent. of 275 miles?

918. A man sends \$3,246.20 to his agent in Boston, asking him to lay it out in shoes, after deducting his commission of 2 per cent. How much is his commission?

919. A gentleman has a house insured for \$8,000, and the furniture for \$4,000, at $2\frac{3}{8}$ per cent.: what premium must he pay?

920. State the difference between percentage and interest.

921. What is the interest of \$1,500.60 for 2 yr. 4 mo. at $6\frac{1}{4}$ per cent.?

922. Find the *amount* of \$387.20, from Jan. 1 to Oct. 20, 1878, at 7 per cent.

923. A man was offered \$3,675 in cash for his house, or \$4,235 in three years without interest; he

accepted the latter offer; did he gain or lose, and how much, money being worth 7 per cent.?

924. What are the proceeds of a note for \$368, at 90 days, discounted at *bank* at 6 per cent.?

925. If 16 horses consume 128 bushels of oats in 50 days, how many bushels will 5 horses consume in 90 days?

(Solve by Compound Proportion.)

926. Will the cube of $\frac{1}{4}$ be greater, or less, than that fraction, and why?

927. What is the square root of .00008836?

928. The pedestal of a certain monument is a cube, containing 373,248 solid inches; what is the length of one of its sides?

929. A. loaned \$1,600, at 6 per cent., until it amounted to \$2,000; what was the time?

Examination XXXVIII. Feb. 27, 1879.

930-31. Write and define any four (or more) of the following terms: Notation; Roman Notation; Arabic Notation; Decimal Scale or System; Duodecimals; Numerator; Quotient. (1 credit for 2, and 2 for 4 or more correct answers.)

932. Write 1879 according to the Roman Notation.

933. Add the numbers: 1, 12, 123, 1234, 12345, 123456, 1234567, 12345678, 123456789.

934. Bought wheat at 94 cts. per bushel, to the amount of \$59.22, and sold for \$70.56; what was the selling price per bushel?