

of granite, containing 373248 solid inches : what is the length of one of its sides ?

Examination XLIII(b), June 17 1880.

1070. Express in words: 5000000750001.

1071. If the product of two numbers is 346712, and one of the factors is 76, what is the other factor ?

1072. What is Cancellation ?

1073. Find the least common multiple of 4, 14, 28, and 98.

1074. The product of 3 numbers is $\frac{5}{8}$: two of the numbers are $2\frac{1}{2}$ and $\frac{7}{8}$: what is the third ?

1075. What is the sum of six-millionths, four ten-thousandths, 19 hundred-thousandths, sixteen-hundredths, and four-tenths ?

1076. Reduce $\frac{\frac{5}{8} \text{ of } 16.125}{4\frac{1}{3}}$ to a decimal fraction.

1077. Make a receipted bill of the following articles as if sold to John Smith by yourself:

16 lbs. of tea, at \$.85 per lb. . . .

28 " " coffee, at \$.25 $\frac{1}{2}$ per lb. . . .

15 Yards of linen, at \$.66 per yard. . . .

1078. How many acres are there in 250 city lots, each of which is 25 feet by 100 ?

1079. Add 96 bu. 3 pk. 2 qt. 1 pt., 46 bu. 3 pk. 1 qt. 1 pt., 2 pk. 1 qt. 1 pt., and 23 bu. 3 pk. 4 qt. 1 pt.

1080. By the chronometer, it is 4 hr. 56 min. 4 $\frac{1}{8}$

sec ., P.M., at Greenwich, when it is 12 M. at New York; what is the longitude of New York ?

1081. $\frac{1}{2}$ of $\frac{2}{3}$ is what part of $\frac{9}{11}$?

1082. How many pounds of thread will it require to make 60 yd. of 3 qr. wide, if 7 lb. make 14 yd. 6 qr. wide ? (Solve by double rule of three).

1083. What is the difference between $5\frac{1}{2}$ per cent. of \$800, and $6\frac{1}{2}$ per cent. of \$1050 ?

1084. If I sell a piano, which cost \$275, for \$315, what is the rate per cent. of gain ?

1085. What amount of government stock can I buy for \$15525, when it sells at $3\frac{1}{2}$ per cent. premium ?

1086. What is the simple interest of \$3750.87, for 2 years and 9 months, at 8 per cent. ?

1087. The interest of \$3675, for 3 years, is \$771.75: what is the rate ?

1088. What is the *amount*, at compound interest, of \$250, for two years, at 8 per cent. ?

1089. What is the bank discount of a note of \$1000, payable in 60 days, at 6 per cent. interest ?

1090. A man who has only \$50, owes \$75 to A, \$150 to B, and \$100 to C: what should he pay to each ?

1091. Find the 4th power of 16.

1092. What is the square root of 26883881 ?

1093. How many small cubes, of 2 inches on a side, can be sawed out of a cube 2 feet on a side, if nothing is lost in sawing ?

1094. How many bricks, 8 inches long and 4 inches wide, will pave a yard that is 100 feet by 50 feet ?

1095. There was a company of soldiers, of whom $\frac{1}{4}$ were on guard, $\frac{1}{6}$ preparing dinner, and the remain-

der, 55 men, were drilling: how many were there in all?

1096. A wall of 700 yards in length, was to be built, in 29 days; 12 men were employed on it for 11 days, and only completed 220 yards: how many men must be added, to complete the wall in the required time?

1097. If a house is 50 feet wide; and the post which supports the ridge-pole is 12 feet high, what will be the length of the rafters?

Examination XLIV. Nov. 11, 1880.

1098. Copy and add:

5.67	6.78	1.23	3.78	61.37	9.00	1.07	7.16	6.78	1.78	223.06	5.61	4.45	4.56	7.89	3.07	4.56	3.45
23.21	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14	92.14
\$																	

1099. From—

100200300400500600 take 908070605040302.

1100. Divide 4500700424 by 407.

1101. What is the value of 17 chests of tea, each containing 59 lbs., at \$0.67 per lb.?

1102. For what is Troy weight used?

1103. Give the table of Troy weight.

1104. In 56 m. 7 fur. 37 rd. 12 ft. 9 in. how many inches?

1105. How many cords in a pile of wood 15 ft. long, 4 ft. wide and $6\frac{1}{2}$ ft. high?

1106. John Quincy Adams was born July 11, 1767, and died February 23, 1848. To what aged did he live?