

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?

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Examination XLIV. Nov. 11, 1880.

1098. Copy and add:

5.67	23.21	6.78	92.14	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
\$																			

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?

1107. At £280 5s. 9½d. for 97 tons of lead, what is the cost per ton?

1108. Find, by cancellation, the quotient of—

$8 \times 5 \times 3 \times 16 \times 28$ divided by $10 \times 4 \times 12 \times 4 \times 7$.

1109. Find the least common multiple or dividend of 9, 8, 12, 18, 24, 36 and 72.

1110. Reduce $\frac{2}{4}$, $\frac{4}{6}$, $\frac{5}{8}$, $\frac{7}{8}$ to the least common denominator.

1111. How many cubic feet in 10 boxes, each $7\frac{1}{2}$ ft. long, $1\frac{1}{2}$ ft. wide and $1\frac{1}{4}$ ft. high?

1112. If $\frac{2}{16}$ of a saw-mill are worth \$631.89, what are $\frac{5}{14}$ of it worth?

1113. Multiply eighty-seven thousandths by fifteen millionths.

1114. What is the value of .965625 of a mile, in integers of lower denominations?

1115. What is $\frac{7}{8}$ per cent. of \$1,728?

1116. I have John Smith's note for \$144, dated July 25, 1879, payable on demand; how much will be due me, at 6 per cent. simple interest, March 9, 1882?

1117. What is the amount of \$100 for 3 months, the interest to be added each month, at 6%?

1118. What is the present worth of \$477.71, due 4 years hence, discounted at 6 per cent?

1119. For what sum must a note at bank be made, payable in 3 months, at 6 per cent. discount, to obtain \$300 at the present time?

1120. If I sell wood at \$7.20 per cord, and gain 20 per cent., what did it cost me per cord?

1121. If 5 men can harvest a field in 12 hours,

how many hours would it require if 4 more men were employed? Solved by Rule of Three (Proportion.)

1122. If 15 oxen and 20 horses eat 6 tons of hay in 8 weeks, how much will 12 oxen and 28 horses require in 21 weeks? Solved by Double Rule of Three (Compound Proportion.)

1123. Find the square root of 9754.4376.

1124. What must be the depth of a cubical cistern that will hold 3048.625 cubic feet of water?

1125. How many tiles 8 in. square will cover a floor 18 ft. long and 12 ft. wide?

Examination XLIV, March 3, 1881.

1126. Copy and add: 20570; 6206; 98.007; 63000; 426.000626; 4287; 63.961; 102030; 405.0607; 8090; 543.21; 1028848.414995.

1127. Express by Arabic Notation: $\overline{\text{MDXCV DCCCLXIV}}$.

1128. Express by Roman Notation: 84796.

1129. Numeration: 20567189.004321098.

1130. Divide 31984875832 by 96813.

1131. Find the value of

$$\overline{(28-7) \times 6} + \overline{(92+7) \div 9} - \overline{(86+10) \div 12}.$$

1132. Divide, using cancellation:

$$15 \times 80 \times 27 \times 28 \text{ by } 7 \times 20 \times 8.$$

1133. Change $\frac{2}{31}$, $\frac{1}{37}$, $\frac{2}{169}$, and $\frac{1}{4}$ to similar fractions having their least common denominator, and (1134) reduce their sum to decimal form.

1135. Find the greatest common divisor of 7955, 8769, 6401.