

each side of a square carpet, made from $49\frac{1}{2}$ yd. of Brussels carpeting, $\frac{3}{4}$ yd. wide?

144. How is the *last term* of a geometrical series found, the *first term*, *ratio*, and *number of terms* being given?

Examination VII. Nov. 13, 1868.

145. Express in figures six hundred millions seventeen thousand three hundred and eight.

146. What is the sum of 372856, 404932, 2704793, 9078961, 304165, 207708, 41274, 375, 271, 34 and 6?

147. From sixty-five billions three millions six hundred and twelve, take nine billions one million four thousand and six.

148. One factor of a certain number is 11, and the other 3708311605: what is that number?

149. What are the prime factors of 800?

150. If the quotient is 482, and the divisor 281, what is the dividend?

151. If I take 13729 from the sum of 8762 and 14967, divide the remainder by 50, and multiply the quotient by 19, what is the product?

152. How many miles in 60,750 links?

153. What is the sum of $\frac{4}{5}$ of $9\frac{3}{5}$, and $\frac{4}{5}$ of $328\frac{3}{5}$?

154. Reduce $\frac{5}{7}$ of $\frac{1}{5}$ of $6\frac{1}{5}$ of 17 to a simple fraction.

155. How many times is $\frac{5}{8}$ contained in 837?

156. Reduce $\frac{9}{25}$ of an acre to lower denominations.

157. Find the greatest common divisor of 492, 744, 906.

158. What is the least common multiple (or dividend) of the nine digits?

159. Divide 0.01764144 by 0.0018.

160. Reduce 7 fur. 29 rd. to the decimal of a mile.

161. What sum, at 7 per cent., will amount to \$221.075 in 3 years 4 months?

162. What is the amount of \$1,200 for 2 years at 6 per cent. compound interest, payable quarterly?

163. If \$100 gain \$6 in 1 year, what principal will gain \$12 in 8 months?

164. To what number has $\frac{1}{2}$ the same ratio as exists between 3 and 21?

165. What number of men will be required to perform a piece of work in 8 days, that would take 15 men 24 days?

166. A. and B. enter into partnership. A. furnishes \$240 for 8 months; and B. \$560 for 5 months. They lost \$118. How much did each man lose?

167. What is the square root of 61723020.96?

168. How many cubic quarter-inches are contained in a cubic inch?

Examination VIII. Feb. 19, 1869.

169. Add the following numbers: One hundred and eight billions, three hundred and six; twenty-one billions, twenty thousands, two hundred and ten; thirty billions, twenty-nine millions and three.

170. Reduce 2,579,792 drams avoirdupois to higher denominations.

171. Reduce 1 mi. 18 rd. 2 yd. 2 ft. to inches.