MISCELLANEOUS EXAMPLES.

166. If the country which supplies the river Po with water be 380 miles long, and 120 broad, and the whole land upon the surface of the earth be 62,700,000 square miles, and if the quantity of water discharged by the rivers into the sea be everywhere proportional to the extent of land by which the rivers are supplied, how many times greater than the Po will the whole amount of the rivers be?

Ans. 1375 times.

1113.

167. Upon the same supposition, what quantity of water, altogether, will be discharged by all the rivers into the sea in a year, or 365 days? Ans. 19272 cubic miles.

168. If the proportion of the sea on the surface of the earth to that of land be as $10\frac{1}{2}$ to 5, and the mean depth of the sea be a quarter of a mile; how many years would it take, if the ocean were empty, to fill it by the rivers running at the present rate? Ans. 1708 years, 17 days, 12 hours.

Ans. 2109'375 lbs. weight on a square foot.

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10249980468750000000 " " of whole atmosphere. 170. If a circle be 14 feet in diameter, what is its circumference ?

- Note. It is found by calculation, that the circumference of a circle measures about 34 times as much as its diameter, or more accurately, in decimals, 3'14159 times.

Ans. 44 feet.

171. If a wheel measure 4 feet across from side to side, how many feet around it? Ans. 124,

172. If the diameter of a circular pond be 147 feet, what is its circumference? Ans. 462 feet.

173. What is the diameter of a circle whose circumference is 462 feet? Ans. 147 feet. 174. side to

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