Using countable additivity

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Let the sample space be the set of positive integers and suppose $P(n) = \frac{1}{2^n}$ for $n = 1, 2, \cdots$ Find the probability of the set $\frac{3}{3}, 6, \frac{9}{3}, \ldots$ $\frac{3}{1}$ tive integers that are multiples of 3.

 $= \frac{1}{8} = \frac{1}{8} = \frac{1}{7}$