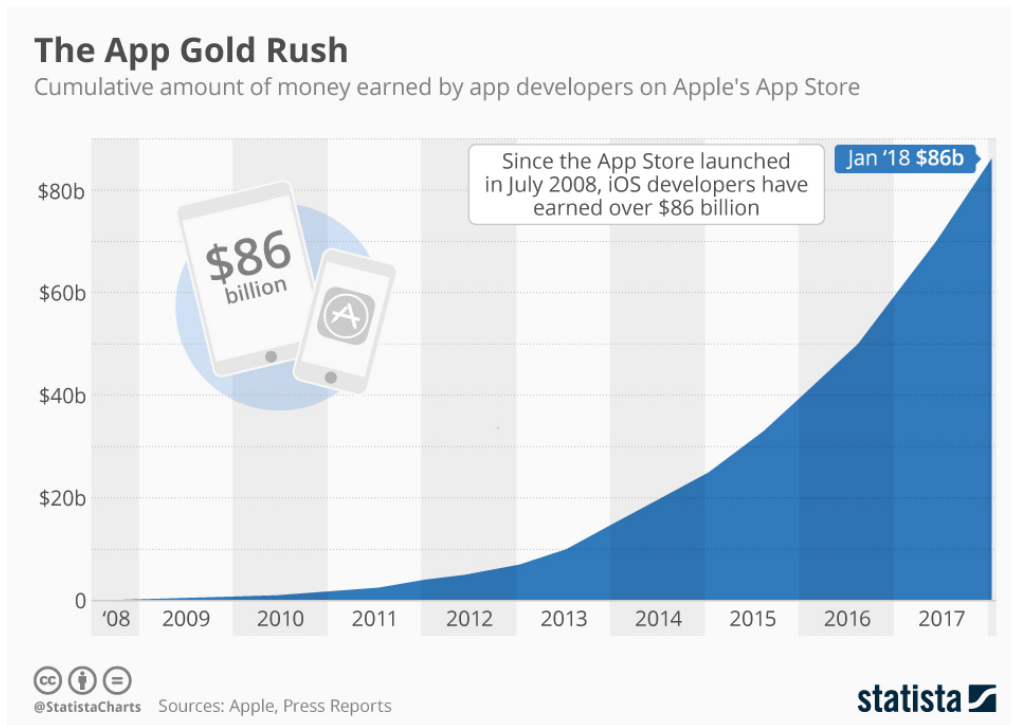


## Exponential Models: The App Gold Rush



Source: <https://www.statista.com/chart/9671/developer-earnings-apple-app-store/>

Data in this table are estimated from the graph provided.

Year	2010	2012	2014	2016	2018
$t$	0	2	4	6	8
Cumulative earnings (in billions)	1.5	4.6	14	38	86

- Using the data in the table, find the ratios of successive data values to determine whether an exponential model is reasonable.
- Using the data in the table, find a continuous exponential regression model for cumulative earnings,  $C(t)$ , where  $t$  is the number of years since 2010.
- Find when  $C(t) = 200$  and interpret this in words.