

Eggs by the Numbers

name _____

Creating equations and inequalities (HSA-CED.A.1)

Besides Iowa and Ohio, the other egg producing states in the top five are Indiana, Pennsylvania and Texas.

Solve each problem. Show your work.

1. In 2008, 92.4% of all households bought eggs. By 2010, the percentage had increased to 93.0%. Assuming the same rate of change, in what year will the percentage of households buying eggs increase to 96%?

2. The largest egg-producing state, Iowa, has 53,044,000 egg-laying chickens. The second-largest egg-producing state, Ohio, has 1,347,000 more than half as many egg layers as Iowa. How many egg layers does Ohio have?



3. As of March 2014, chickens produced 77.9 eggs per every 100 egg-laying chickens. Given there are 294 million egg layers, how many eggs per day do they produce?

4. In 1989, 162.5 million cases of eggs were produced in the United States. Since then egg production has grown at a rate of 1.4% annually. To the nearest million, how many cases were produced in 2012?

5. From 1992-2012, per capita consumption of eggs in the United States increased by 6.21%. If the consumption was 249.7 eggs per capita in 2012, what was it in 1992?

6. Eggs are a good source of protein. One large egg has 6 grams of protein, which is 12% of the U.S. recommended daily allowance. How many eggs would a person need to eat to get all of his daily protein from eggs? How many grams of protein would this be?

In 2020, the per capita (per person) consumption of eggs was 286 eggs.





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Answer Key

1. in 2020
2. 27,869,000 egg layers
3. 229.026 million
4. 224 million
5. 234.418 eggs per capita
6. 8.33 eggs; 50 grams of protein

