

# Chips Ahoy!

## A Thousand Chips In Every Bag

Name \_\_\_\_\_

1. Estimate how many chips are in one Chips Ahoy! Cookie. \_\_\_\_\_

2. Create a stem and leaf plot of the class estimates.

0		
1		
2		
3		
4		

3. Find the mean. \_\_\_\_\_

4. Find the median. \_\_\_\_\_

5. Find the mode. \_\_\_\_\_

6. In a one pound bag of cookies, there are 3 cookies per serving and there are about 16 servings per bag. About how many cookies are in a one pound bag?

\_\_\_\_\_

7. Which average, the mean, median or mode, would be best to use in determining our estimate of the number of chips in a one pound bag?

\_\_\_\_\_ Why do you think that average is best? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

8. Based on the average you choose in question 7 and the number of cookies in a bag, how many chips does our class estimate are in a one pound bag of cookies? \_\_\_\_\_

9. Now let's find out. Count the actual number of chips in your cookie. How many chips are in your Chips Ahoy! Cookie. \_\_\_\_\_

10. Create a stem and leaf plot of the actual numbers of the class cookie count.

0	
1	
2	
3	
4	

11. Find the mean. \_\_\_\_\_

12. Find the median. \_\_\_\_\_

13. Find the mode. \_\_\_\_\_

14. Based on the average you choose in question 7 and the number of cookies in a bag, about how many chips will our class find in a one pound bag of cookies? \_\_\_\_\_

15. Based on our findings, explain why the Nabisco Company can or can not claim to sell 1000 chips in every bag. Include in your explanation the data you found in our experiment. \_\_\_\_\_

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### **Chips Ahoy! Fun Facts**

16. For one person to eat all the Chips Ahoy! Cookies Nabisco made in a single year, it would take 5,927 years if they ate 2 cookies per minute. At this rate, if a person started eating when the Great Pyramids were being built in 2,500 BC they would still have to eat for another 1,200 years! How many cookies would a person eat in one day? \_\_\_\_\_

17. Each year Nabisco uses over 37 million pounds of chocolate to make Chips Ahoy! Cookies. That is enough chocolate to make one 8oz solid chocolate bunny for every kid in America. How many kids are in America? \_\_\_\_\_

18. Chips Ahoy! Cookies are baked in ovens, which are as long as a football field. Over 4,000 cookies exit the oven each minute. How many cookies do they bake in one hour? \_\_\_\_\_

19. The 37 million pounds of chocolate to make Chips Ahoy! Cookies in a single year equal the weight of 11,749 mid-size automobiles. Write 37 million in scientific notation. \_\_\_\_\_