

29 A gumball machine has an equal number of gumballs in 6 different colors: red, yellow, blue, green, orange, and white. If the machine contains 300 gumballs, and Lamar puts one coin into the machine, what is the probability that he will get a blue gumball?

30 Jeremy and Stephen are playing a game called “Guess My Number.” Jeremy gave Stephen the following clues.

- The number has four digits.
- The thousands digit is twice the hundreds digit.
- The ones digit is divisible by five.
- The sum of the digits is 13.

What could be Jeremy’s number?

Question 31 is an open-response question.

- **BE SURE TO ANSWER AND LABEL ALL PARTS OF THE QUESTION.**
- **Show all your work (drawings, tables, or computations) in your Student Answer Booklet.**
- **If you do the work in your head, explain in writing how you did the work.**

31 Ms. York gave a math quiz to each of her two classes. The quiz scores of each class are shown below.

	Morning Class Quiz Scores	Afternoon Class Quiz Scores
Quiz Scores	91, 80, 75, 80, 60, 87, 80, 88, 90, 87, 92, 98	80, 87, 90, 70, 93, 80, 85, 90, 95, 80
Mean	84	?
Median	87	?
Mode	80	?

- In your Student Answer Booklet, draw a stem-and-leaf plot that displays the afternoon class quiz scores. Make sure to include a key.
- Determine the mean, median, and mode of the quiz scores for the afternoon class. Show or explain your work.
- Which class do you think did better on the quiz? Show or explain your work.
- If Ms. York wants to compute the overall mean of the scores from both classes, can she do this by taking the average of both means? Explain why or why not.

- 32 Agnes earns d dollars for babysitting each week. She also receives an allowance of \$10 per week. The expression below can be used to calculate the amount of money she will have at the end of 5 weeks.

$$(10 + d) \times 5$$

What is the amount of money Agnes will have at the end of five weeks if $d = \$25$?

- A. \$125
- B. \$135
- C. \$175
- D. \$260