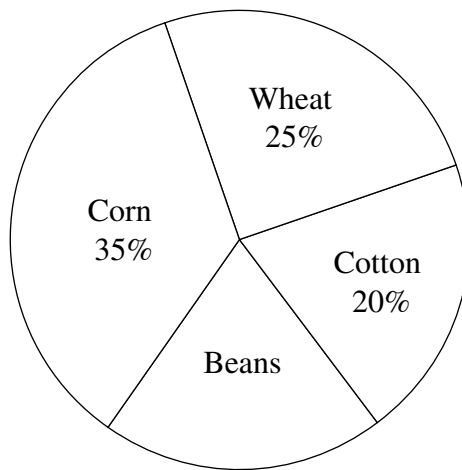


Question 17 is an open-response question.

- **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.**

- 17 Mr. Riley grows four different crops on his 300-acre farm. Each acre has the same number of plants. The circle graph below shows what percent of the total number of acres is planted in each crop.

**Crops Planted on Mr. Riley's Farm**



- What percent of Mr. Riley's farm is planted in beans? Show or explain your work.
- How many acres of wheat are planted in Mr. Riley's farm? Show or explain your work.
- Mr. Riley thinks that if he plants wheat in all of the acres that are beans, more than half his farm would be wheat. Is he correct? Why or why not? Show or explain your work.

- 18 Ms. Wood asked each student to write on a piece of paper one place that he or she would like to visit on a class field trip. The results are shown in the chart below.

**Field Trip Choices**

Place to Visit	Number of Student Choices
science museum	9
water park	3
power plant	4
history museum	7
zoo	5

Ms. Wood placed each student's paper in a bag and drew one paper at random. What is the probability she drew a piece of paper that had the science museum written on it?

- A.  $\frac{1}{28}$
- B.  $\frac{1}{5}$
- C.  $\frac{9}{28}$
- D.  $\frac{9}{5}$

19 Which of the following expressions has the **greatest** numerical value?

A.  $2 \times 10^3$

B.  $4 \times 10^5$

C.  $5 \times 10^4$

D.  $7 \times 10^2$

20 Marty began a pattern with the number 3. He obtained all of the other terms in the pattern by multiplying the previous term by 2 or by 3 alternately as shown below.

3, 6, 18, 36, 108, 216, . . .

What is the next term in Marty's pattern?

A. 324

B. 432

C. 540

D. 648