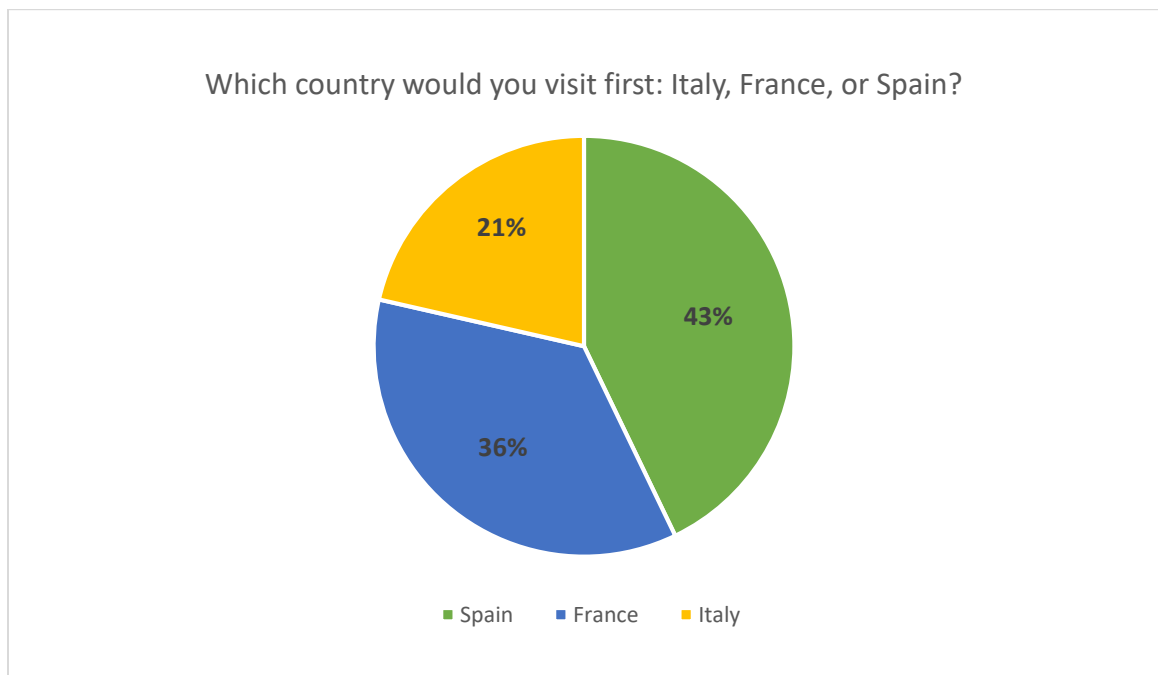


## Understanding Percent Worksheet

Answer each problem with complete sentences.

1. Lilah created a bouquet of 20 flowers that has 5 carnations, 10 sunflowers, and 5 daisies. Find the percent of each type of flower in the bouquet.
2. The class took a field trip to the zoo, which only houses parrots and toucans. The class found that the ratio of parrots to toucans was 30:10. The teacher asked what percentage of parrots the zoo has. One student said the zoo has 30% parrots. Explain why this student is incorrect, and give the correct percentage of parrots.
3. Ariella asked her friends which country they'd like to visit first: Italy, France, or Spain. She made a pie chart of her friends' answers. What percent of her friends said they would like to visit Spain first?



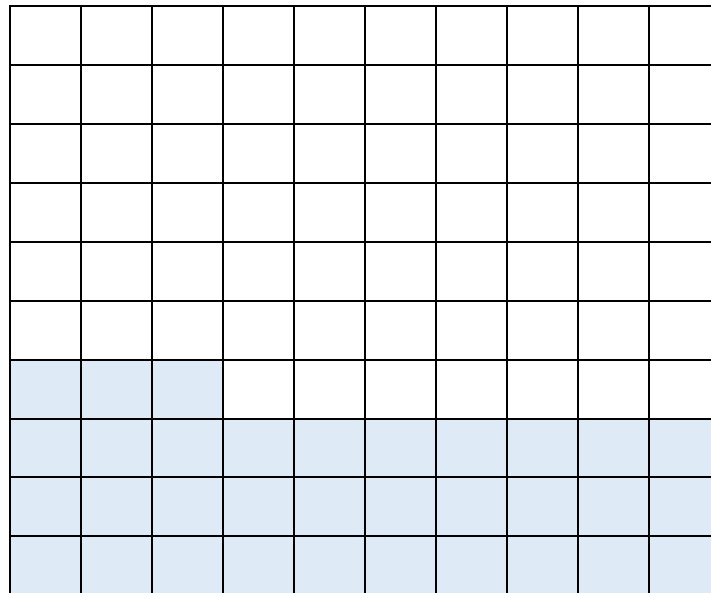
4. Rajan's goal was to raise \$1000 for the fundraiser, but he raised \$1500. What percent of his goal did he reach?
5. Naylea has 20 friends that play a sport. The number of her friends who play soccer is shown on the grid. Use the grid to answer questions about Naylea's soccer-playing friends.



- a. What percentage of Naylea's friends play soccer?
- b. How many friends does this percentage represent?
- c. Two more of Naylea's friends decided they wanted to play soccer instead of basketball. How many squares do you need to fill in to represent this new number?
- d. Now that 2 more of Naylea's friends are playing soccer, what is the new percentage of her friends that play soccer?
6. Seventy percent of the students in the classroom like the color blue. Circle the statements that are true.
- a. If there are 10 students in the classroom, 7 like the color blue.
  - b. If there are 70 students in the classroom, 7 like the color blue.
  - c. If there are 7 students in the classroom, 7 like the color blue.
  - d. If there are 100 students in the classroom, 70 like the color blue.
  - e. If there are 7 students in the classroom, 1 likes the color blue.

7. A baker has sold 9 of the 50 cakes she baked so far. Fill in the grid to represent the percent of her cakes that she sold.


8. What percent is modeled on the grid?



## Understanding Percent Answer Key

Answer each problem with complete sentences.

1. Lilah created a bouquet of 20 flowers that has 5 carnations, 10 sunflowers, and 5 daisies. Find the percent of each type of flower in the bouquet.

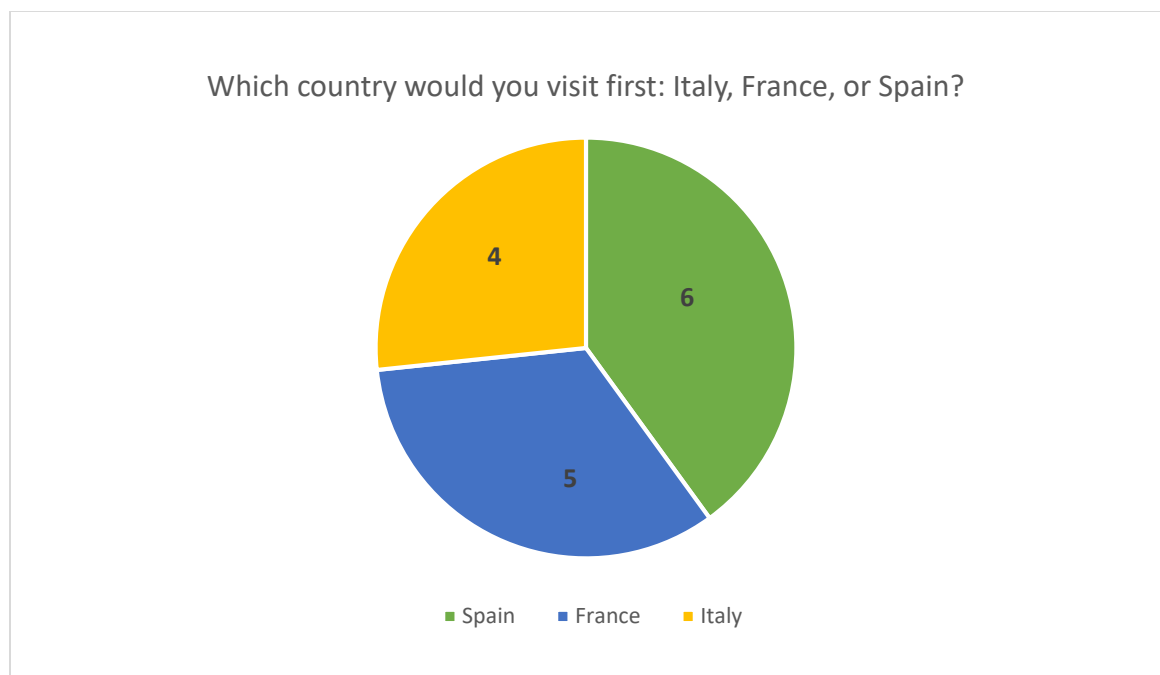
There are 25% carnations, 50% sunflowers, and 25% daisies in Lilah's bouquet.

2. The class took a field trip to the zoo, which only houses parrots and toucans. The class found that the ratio of parrots to toucans was 30:10. The teacher asked what percentage of parrots the zoo has. One student said the zoo has 30% parrots. Explain why this student is incorrect, and give the correct percentage of parrots.

The student confused a part-to-part relationship with a part-to-whole relationship. The ratio of parrots to total birds is 30:40. Written as a fraction, this is  $\frac{30}{40}$ . That means 75% of the birds are parrots.

3. Ariella asked her friends which country they would like to visit first: Italy, France, or Spain. She made a pie chart of her friends' answers. What percent of her friends said they would like to visit France first?

Six of Ariella's friends said they would like to visit Spain first. Ariella has 15 total friends. This means that  $\frac{6}{15}$ , or 40% of Ariella's friends would like to visit Spain first.



4. Rajan's goal was to raise \$1000 for the fundraiser, but he raised \$1500. What percent of his goal did he reach?

Rajan reached 150% of his goal.

5. Naylea has 20 friends that play a sport. The number of her friends who play soccer is shown on the grid. Use the grid to answer questions about Naylea's soccer-playing friends.



- a. What percentage of Naylea's friends play soccer?

40% of Naylea's friends play soccer.

- b. How many friends does this percentage represent?

This means that 8 of Naylea's friends play soccer.

- c. Two more of Naylea's friends decided they wanted to play soccer instead of basketball. How many squares do you need to fill in to represent this new number?

I need to fill in one square.

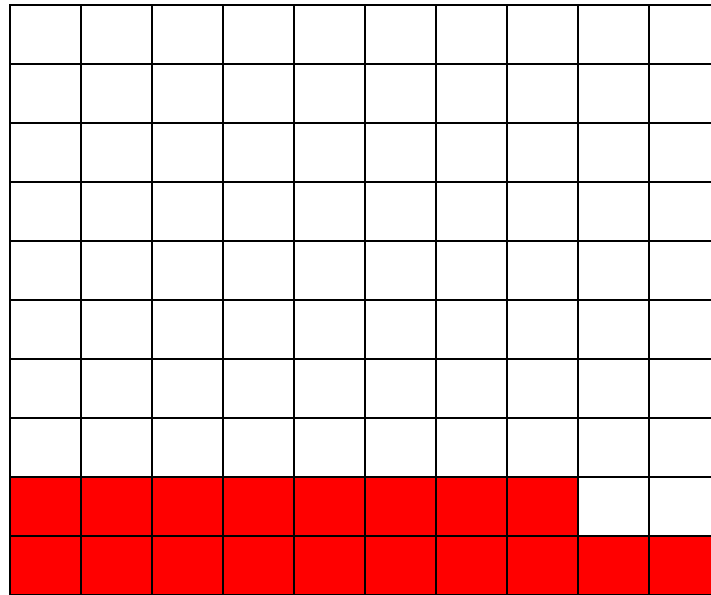
- d. Now that 2 more of Naylea's friends are playing soccer, what is the new percentage of her friends that play soccer?

50% of Naylea's friends play soccer now.

6. Seventy percent of the students in the classroom like the color blue. Circle the statements that are true.

- ☒ a. If there are 10 students in the classroom, 7 like the color blue.
- ☐ b. If there are 70 students in the classroom, 7 like the color blue.
- ☐ c. If there are 7 students in the classroom, 7 like the color blue.
- ☒ d. If there are 100 students in the classroom, 70 like the color blue.
- ☐ e. If there are 7 students in the classroom, 1 likes the color blue.

7. A baker has sold 9 of the 50 cakes she baked so far. Fill in the grid to represent the percent of her cakes that she sold.



8. What percent is modeled on the grid? **33%**

