

Graph Data

Skill 4 - 5D

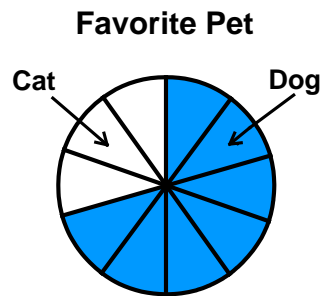
Circle Graphs

This is the answer to test question 5D.

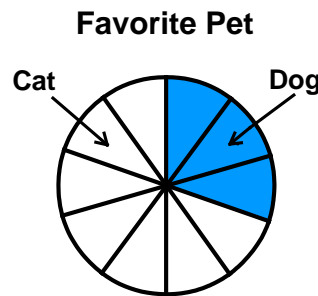
1. Andrew surveyed 10 friends and asked them if they would prefer a dog or a cat for a pet. He collected the data and put it in a table. He then made a circle graph from the table. Which circle graph shows the data from the table correctly? Circle A, B or C.

| Favorite Pet | |
|--------------|--------|
| Pet | Number |
| Dog | 4 |
| Cat | 6 |

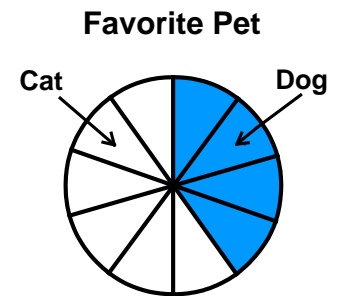
A.



B.



C.



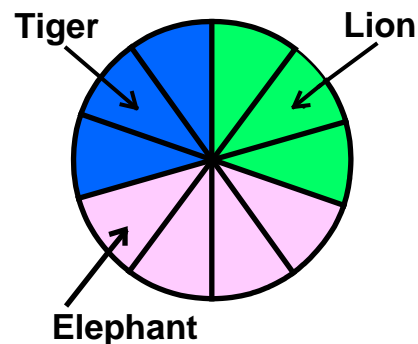
Answer: Circle graph C is divided into 10 parts. Four parts are colored blue to show 4 dogs. Six parts are colored white to show 6 cats.

2.

Mary asked 10 classmates, "What is your favorite zoo animal?" The data that she collected from her survey is shown below in the table. She then made a circle graph from the data in the table.

| Favorite Zoo Animal | |
|---------------------|--------|
| Animal | Number |
| Lion | 3 |
| Elephant | 4 |
| Tiger | 3 |

Favorite Zoo Animals



1. How many classmates choose the lion as their favorite zoo animal?
2. How many more classmates chose elephants than tigers?
3. How many classmates chose lion and tigers?
4. How many classmates voted in the survey in all?
5. How many equal parts is the circle graph divided into?
6. What fraction of the classmates voted for elephants?
7. What fraction of the classmates voted for tigers?

Graph Data

Skill 4 - 5D

Circle Graphs

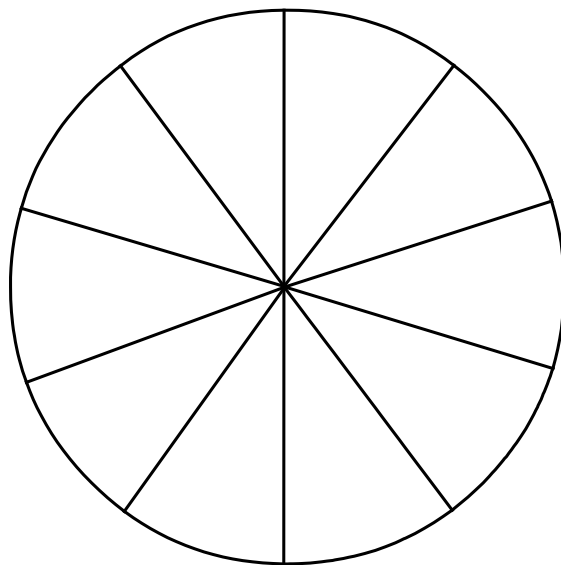
On this page you will make your own circle graph using the data from the table below. Use the circle graph on page one (number 2) as an example to help complete this circle graph.

3.

Joey asked his friends to vote for their favorite subject. He made the table below to show each friend's vote. Use the data in the table to complete the circle graph.

- Use the circle graph on page one to help make this circle graph.
- Write the title of the graph along the top. Write "Favorite Subject".
- Color the sections of the circle graph using the data in the table below.
- Write the name of each subject (Math, Science, English, History) near each corresponding colored section.
- Draw a line from each label to the corresponding colored section on the line graph.

| Favorite Subject | |
|------------------|--------|
| Subject | Number |
| Math | 3 |
| Science | 2 |
| English | 3 |
| History | 2 |



Graph Data

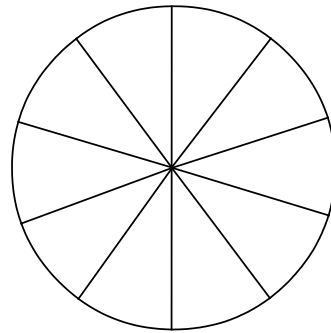
Skill 4 - 5D

Circle Graphs

4.

Michael surveyed 10 friends and asked them what their favorite ride is. He collected the data and put it in a table. Complete the circle graph using the data in the table.

| Favorite Ride | |
|----------------|--------|
| Ride | Number |
| Roller Coaster | 3 |
| Ferris Wheel | 2 |
| Water Slide | 5 |

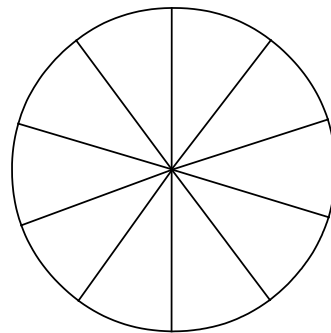


1. Write a title for the circle graph along the top of the graph.
2. Use the data in the table to color the correct number of sections in the circle.
3. Label the colored sections.

5.

Michael asked 10 classmates to vote for their favorite team. He collected the data and put it in a table. Complete the circle graph using the data in the table.

| Favorite Team | |
|---------------|--------|
| Ride | Number |
| Eagles | 2 |
| Bulldogs | 3 |
| Gators | 4 |
| Pirates | 1 |



1. Write a title for the circle graph along the top of the graph.
2. Use the data in the table to color the correct number of sections in the circle.
3. Label the colored sections.

Graph Data

Skill 4 - 5D

Circle Graphs

6.

Think of a question such as ‘What is your favorite pet’? Survey some of your friends or classmates and ask them the question. Use the tally table below to keep a record of each person’s answers. Complete the circle graph below using the data from the tally table.

- Label the top of the tally table below with a title such as “Favorite Pet”

It will look like this except this tally table is not complete.

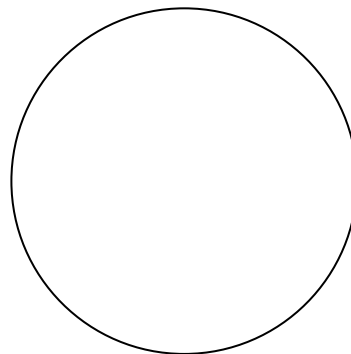
| Favorite Pet | |
|--------------|----------------------|
| Pet | Number of Classmates |
| Lion | |
| | |

- Use the tally table to record each person’s vote.
- When the tally table is complete, find the sum of the column labeled “Number of Classmates”.
- Divide the circle graph into equal parts using the total sum that you found in the last step.
- Label the top of the circle graph with a title such as “Favorite Pet.”
- Color the sections of the circle graph using the data in the tally table.
- Label each colored section.
- Draw a line from the colored section to the label.

Tally Table

| | |
|--|--|
| | |
| | |
| | |
| | |
| | |

Circle graph



Answer Key
Circle Graphs
Skill 4 - 5D

Page 1 Problem 2

1. 3

2. 1

3. 6

4. 10

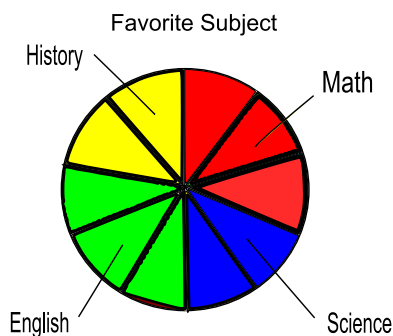
5. 10

6. 4 out of 10 students voted for elephants so $\frac{4}{10}$ voted for elephants

7. $\frac{3}{10}$

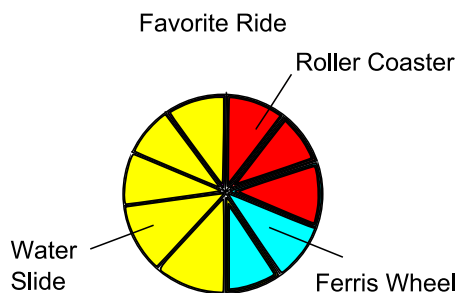
Page 2 Circle Graph 3

| Favorite Subject | |
|------------------|--------|
| Subject | Number |
| Math | 3 |
| Science | 2 |
| English | 3 |
| History | 2 |



Page 3 Circle Graph 4

| Favorite Ride | |
|----------------|--------|
| Ride | Number |
| Roller Coaster | 3 |
| Ferris Wheel | 2 |
| Water Slide | 5 |



Page 3 Circle Graph 5

| Favorite Team | |
|---------------|--------|
| Ride | Number |
| Eagles | 2 |
| Bulldogs | 3 |
| Gators | 4 |
| Pirates | 1 |

