7th Grade

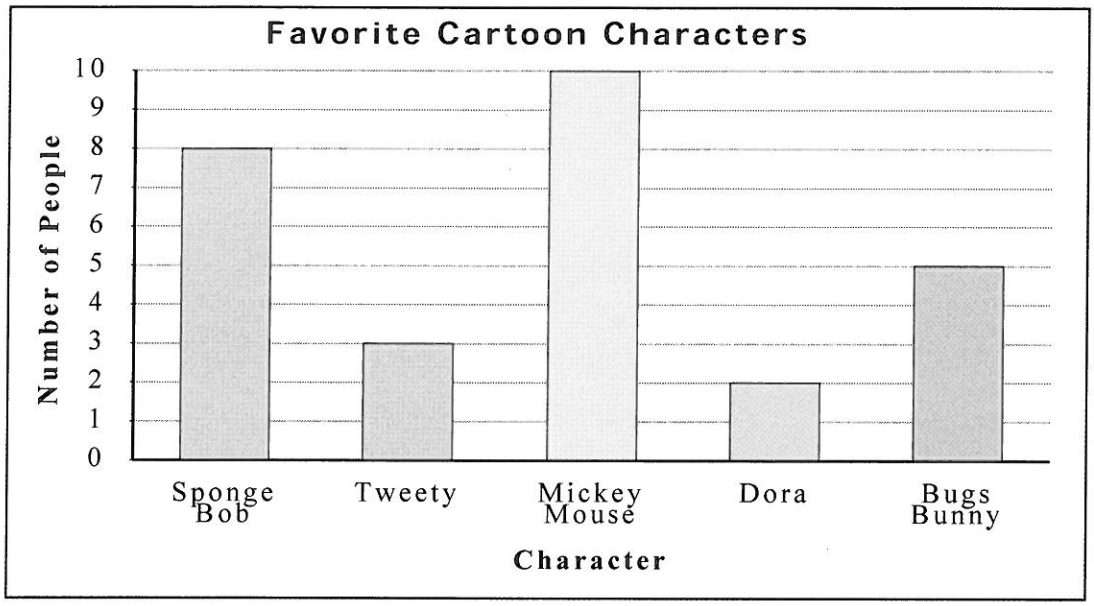
Graphing Booklet

Name: _____

Reading a Bar Graph

Name:

A toy company asked its customers which cartoon character was their favorite. They recorded the results in the bar graph below. Use their graph to answer the questions.



1) How many people liked Bugs Bunny the best?

2) Did more people like Bugs Bunny or Tweety?

3) Which character did exactly 2 people say was their favorite?

4) What is the difference in the number of people who liked Tweety and the number who liked Dora?

5) What is the combined number of people who liked Bugs Bunny and Mickey Mouse?

6) Which character did the largest number of people say was their favorite?

7) Which character did the fewest number of people say was their favorite?

8) How many more people liked Mickey Mouse than liked Bugs Bunny?

9) How many fewer people liked Sponge Bob than liked Mickey Mouse?

10) Did fewer people like Bugs Bunny or Mickey Mouse?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

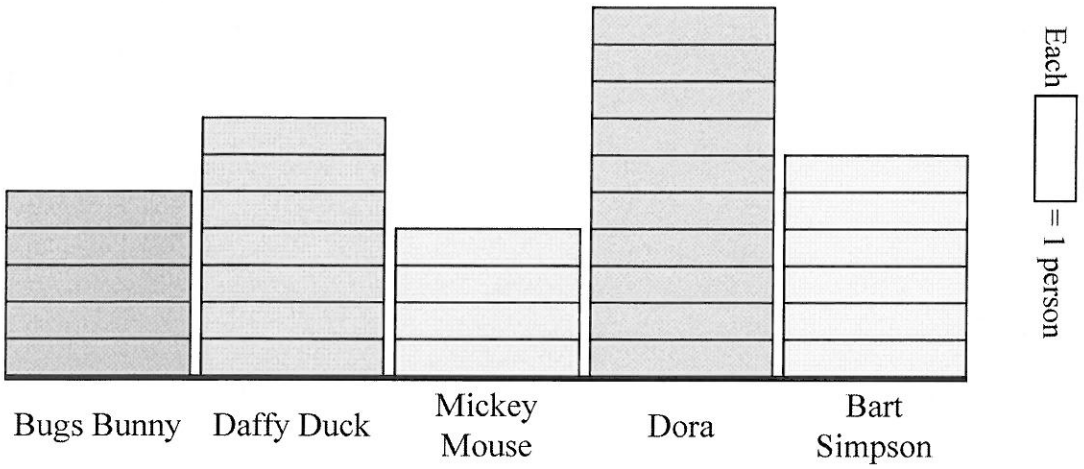
1-10	90	80	70	60	50	40	30	20	10	0

Reading a Bar Graph

Name:

A toy company asked its customers which cartoon character was their favorite. They recorded the results in the bar graph below. Use their graph to answer the questions.

Favorite Cartoon Characters



1) How many people liked Bart Simpson the best?

2) Did more people like Daffy Duck or Bart Simpson?

3) Which character did exactly 4 people say was their favorite?

4) What is the difference in the number of people who liked Mickey Mouse and the number who liked Dora?

5) What is the combined number of people who liked Dora and Mickey Mouse?

6) Which character did the largest number of people say was their favorite?

7) Which character did the fewest number of people say was their favorite?

8) How many more people liked Daffy Duck than liked Bart Simpson?

9) How many fewer people liked Bart Simpson than liked Daffy Duck?

10) Did fewer people like Bugs Bunny or Bart Simpson?

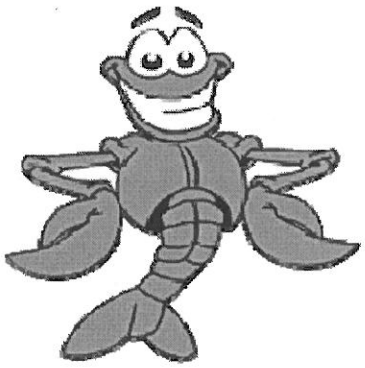
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Name _____ Date _____

Making Bar Graphs



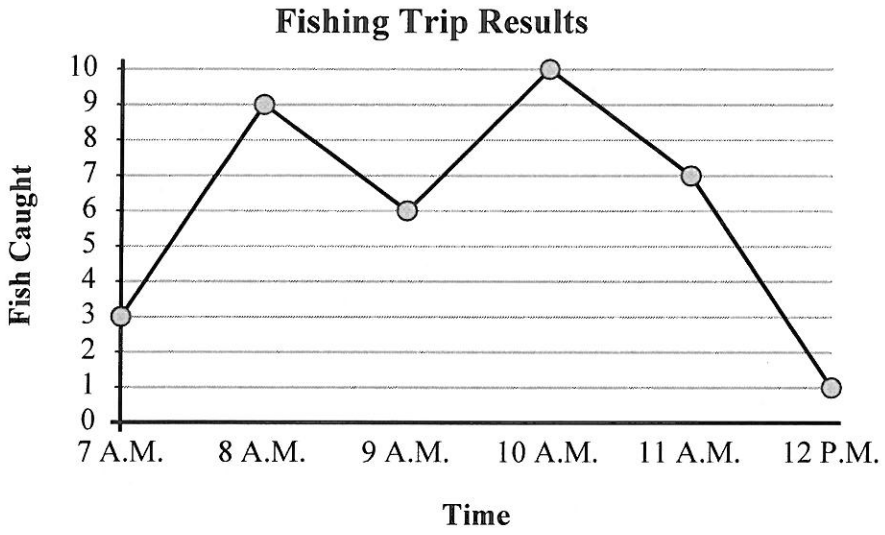
35 students voted on their favorite sea creature. Crabs were the most popular choice. The results of voting can be seen below. Create a bar graph using the space below.

Favorite sea creature vote count:

14 – crabs 7 – sharks 5 – whales

5 – dolphins 4 - eels

The graph below shows the number of fish caught in a day. Use the graph to answer the questions.



1) What time were the most fish caught?

2) What time were the fewest fish caught?

3) From 8 A.M. to 9 A.M. did the number of fish caught increase or decrease?

4) How many fish were caught at 9 A.M.?

5) How many fish were caught at 8 A.M.?

6) Were more fish caught at 9 A.M. or at 8 A.M.?

7) Were fewer fish caught at 12 P.M. or at 10 A.M.?

8) What is the difference in the number of fish caught at 12 P.M. and the number caught at 9 A.M.?

9) What is the total number of fish caught?

10) Were there at least 3 caught at 7 A.M.?

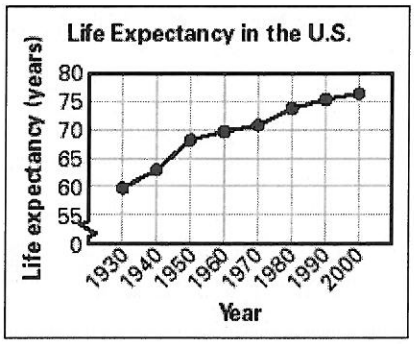
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

7th Math *Line Graph*

A line graph is a type of graph that uses points connected by line segments. Each point is placed based on the relation to the two axis. The horizontal axis, also referred to as the x – axis, normally references time. The vertical axis, also known as the y – axis, normally represents an amount at that given time.



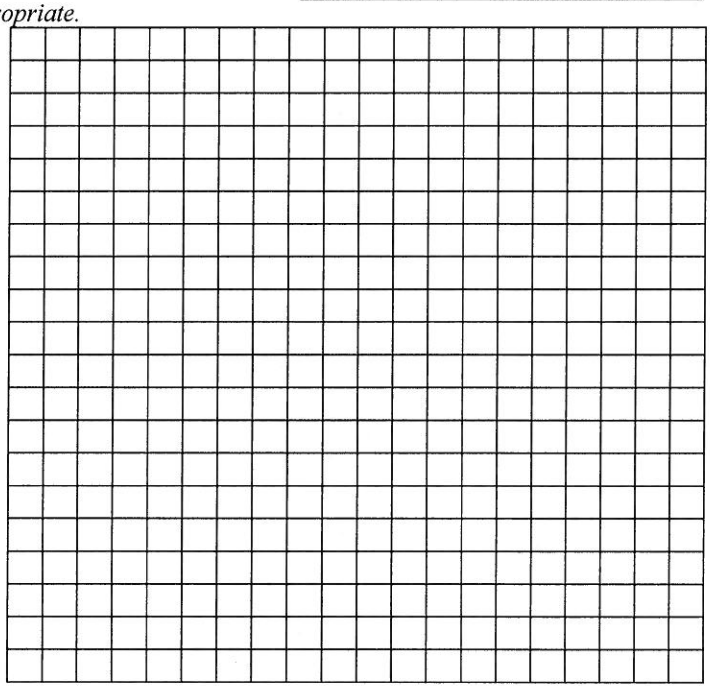
Notice a few items about the given line graph. First, line graphs are titled. There is a title to the overall graph and each axis is labeled. Also note that since the ages are no less than 55, a "jump" is used on the vertical axis.

The following are steps to be followed when creating a line graph:
1. Determine the range of the data for both the x and y axis.
2. Create an appropriate scale for the data. The x and y axis scales may be different.
3. Use a point to represent each piece of data.
4. Connect each point with a line segment.

Create a line graph for each set of data. Use "jumps" when appropriate.

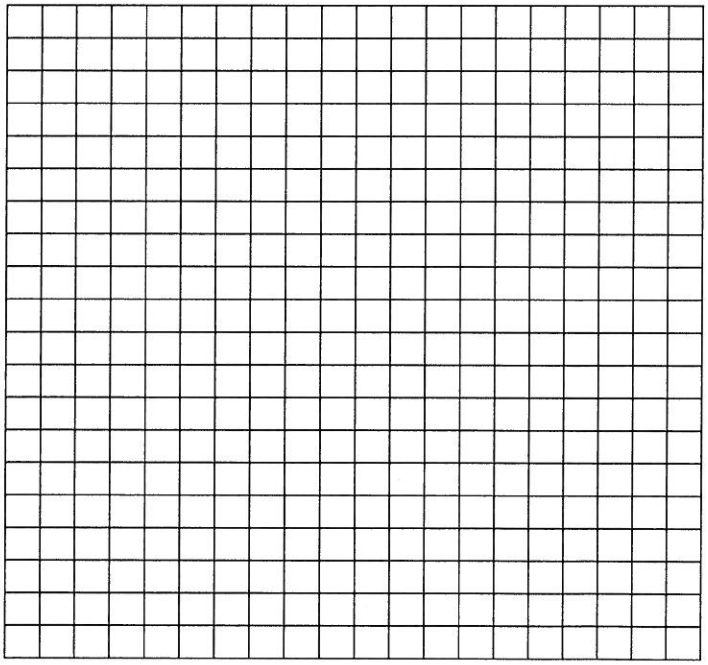
1. The following is Kobe Bryant's season points per game average.

Year	Points
1996	8
1997	15
1998	20
1999	23
2000	29
2001	25
2002	30
2003	24
2004	28
2005	35
2006	29



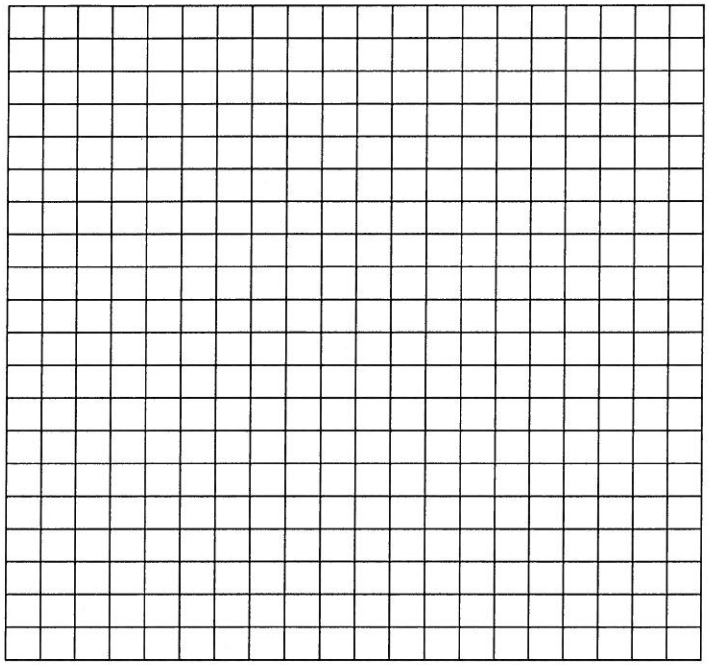
2. The following is Steve Nash's season assists per game average.

Year	Assists
1996	2
1997	3
1998	6
1999	5
2000	7
2001	8
2002	7
2003	9
2004	12
2005	11
2006	12



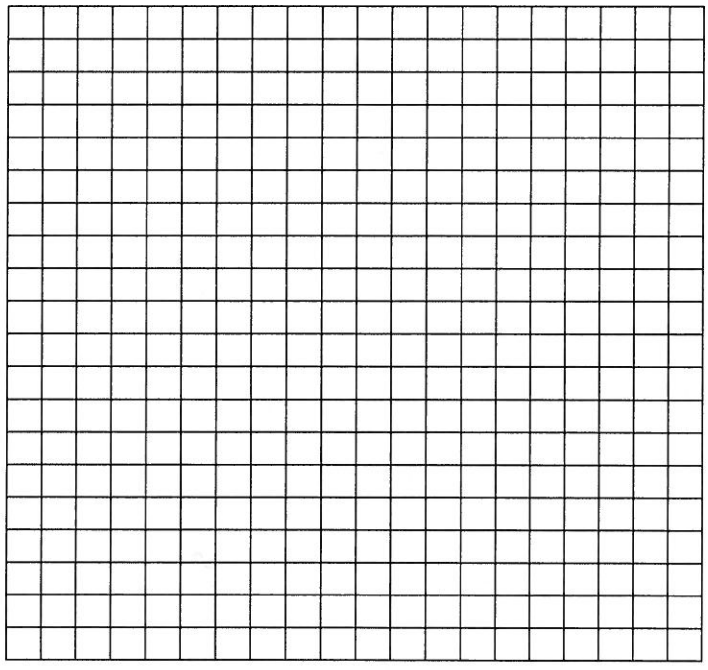
3. The following is the average daily maximum temperature and average daily minimum temperature for Los Angeles. Make a double line graph.

Month	Max Temp (F)	Min Temp (F)
Jan	68	49
Feb	70	50
March	70	52
April	73	54
May	75	58
June	80	61
July	84	65
Aug	85	66
Sept	83	65
Oct	79	60
Nov	73	53
Dec	69	49



4. The following is the population, to the nearest tenth of a million people, for Los Angeles City and County. Make a double line graph.

Year	LA City	LA County
1900	0.1	0.2
1910	0.3	0.5
1920	0.6	0.9
1930	1.2	2.2
1940	1.5	2.8
1950	2.0	4.1
1960	2.5	6.0
1970	2.8	7.0
1980	3.0	7.5
1990	3.5	8.9
2000	3.7	9.5

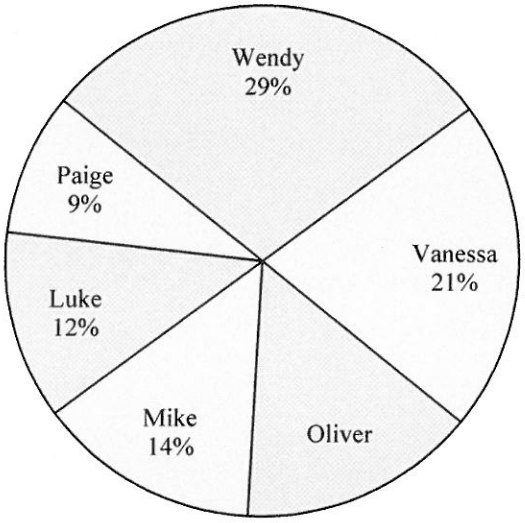


Reading a Pie Graph

Name:

Use the graph to solve.

Class Election Results



1) Who won the election?

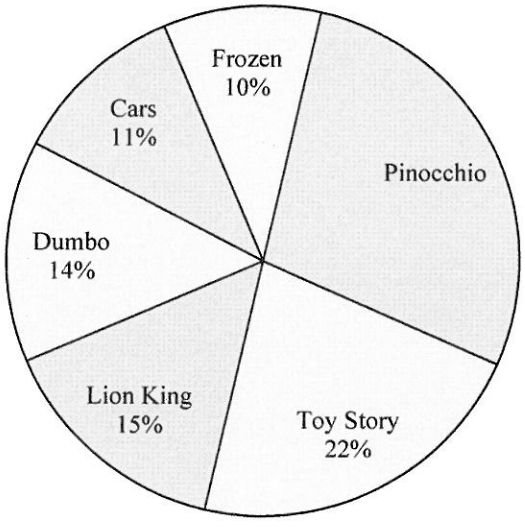
2) Who got the least number of votes?

3) What percent of people voted for Oliver?

4) What percent of people voted for either Luke or Oliver?

5) Which two candidates had about half the votes?

Favorite Disney Movie



6) Which movie was the most popular?

7) Which movie was the least popular?

8) What percent of people said Pinocchio was their favorite?

9) What percent of people said either Pinocchio or Cars was their favorite?

10) Which two movies did about half the people say was their favorite?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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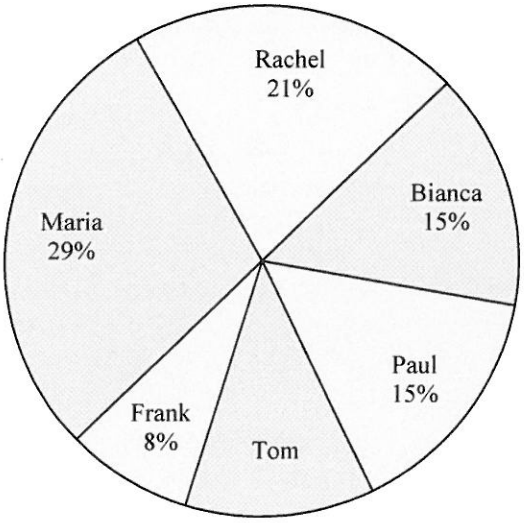
Reading a Pie Graph Name:

Use the graph to solve.

Class Election Results



1) Who won the election?

2) Who got the least number of votes?

3) What percent of people voted for Tom?

4) What percent of people voted for either Paul or Frank?

5) Which two candidates had about half the votes?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

6) Who won the election?

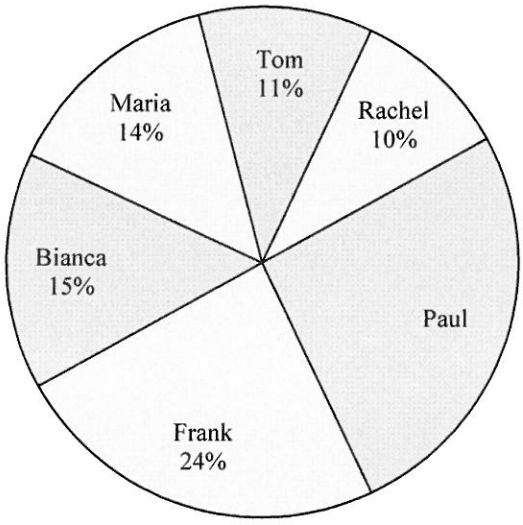
7) Who got the least number of votes?

8) What percent of people voted for Paul?

9) What percent of people voted for either Maria or Tom?

10) Which two candidates had about half the votes?

Class Election Results

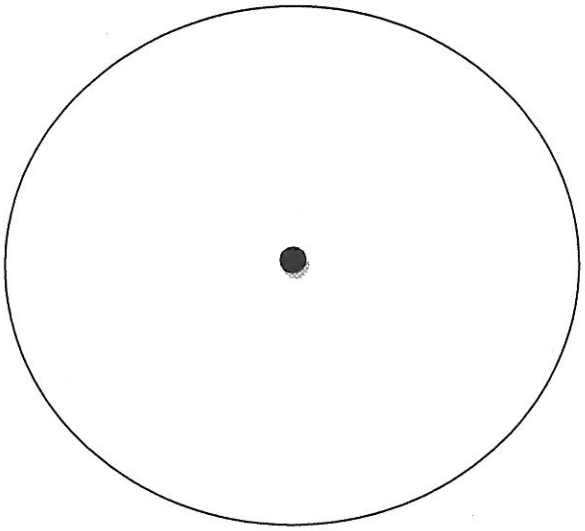


1-10	90	80	70	60	50	40	30	20	10	0

Make pie charts for the following problems.

Problem 1: The student council took a poll of 100 students and asked them to identify their favorite school subjects. Here is the data they collected. Display the data in a pie chart. Label each piece with the subject and percent.

Math: 21	Science: 34	PE: 26	Art: 19



Problem 2: In a taste test, a grocery store asked customers to sample three kinds of peanut butter, and then rank their favorite sample. Display the data below in a pie chart. (YOU NEED TO CALCULATE THE PERCENTAGE FOR EACH PART (actual number/total number) x 100) Label each piece with the type of peanut butter and percent.

Peanut Buster	Walter's Old Style	Big Chunk
23	39	14

Show your work!