1. A political scientist surveys 34 of the current 95 representatives in a state's congress. What is the size of the sample: What is the size of the population: Get help: Video Video Show Answer Show Answer 95 2. The city of Raleigh has 8,500 registered voters. There are two candidates for city council in an upcoming election: Brown and Feliz. The day before the election, a telephone poll of 400 randomly selected registered voters was conducted. 218 said they'd vote for Brown, 158 said they'd vote for Feliz, and 24 were undecided. Give the sample statistic for the percentage of voters surveyed who said they'd vote for Brown. Round your answer to the nearest tenth of a percent. % of the surveyed voters said they'd vote for Brown. This sample statistic suggests that we might expect of the 8,500 registered voters to vote for Brown. Round your answer to the nearest Get help: Video Show Answer 54.5 Show Answer | 4633 3. In a study, the data you collect is Habits on a Always/Sometimes/Never scale. This data is: Quantitative

Qualitative (Categorical)

Qualitative (Categorical)

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Does this describe an observational study or an experiment?
A group of students are told to listen to music while taking a test and their results are compared to a group not listening to music
Observational Study
Experiment
Get help: Video Video
Show Answer Experiment

In a study, the sample is chosen by pulling 30 names from a hat

What is the sampling method?

Random
Stratified
Convenience
None of these

Get help: Video Video

Show Answer Random

As part of a statistics project, a teacher brings a bag of marbles containing 800 white marbles and 200 red marbles. She tells the students the bag contains 1000 total marbles, and asks her students to determine how many red marbles are in the bag without counting them.				
A student randomly draws 100 marbles from the bag. Of the 100 marbles, 15 are red.				
The data collection method can best be described as				
Controlled study				
Survey or Sample				
Census				
Clinical study				
The target population consists of				
The 100 marbles drawn by the student				
The 1000 marbles in the bag				
The 15 red marbles drawn by the student				
The 200 red marbles in the bag				
None of the above				
The sample consists of				
The 15 red marbles drawn by the student				
○ The 1000 marbles in the bag				
○ The 100 marbles drawn by the student				
The 200 red marbles in the bag				
○None of the above				
Based on the sample, the student would estimate that marbles in the bag were red.				
Get help: Video				
Show Answer Survey or Sample				
Show Answer The 1000 marbles in the bag				
Show Answer The 100 marbles drawn by the student				
Show Answer 150				

1.
A team of researchers is testing the effectiveness of a new HPV vaccine. They randomly divide the subjects into two groups.
Group 1 receives existing HPV vaccine, and Group 2 receives new HPV vaccine.
The patients in the study do not know which group they are in.
Which is the treatment group?
Group 1
Group 2
Neither group
Which is the control group (if there is one)?
Group 1
Group 2
No control group
Is this study blind, double blind, or neither?
Blind
Obouble-blind
Neither
Which best describes this research?
Experiment
Placebo Controlled Experiment
Controlled Experiment
Clinical Study
Survey
Get help: Video
Show Answer Group 2
Show Answer Group 1
Show Answer Blind
Show Answer Controlled Experiment

The table below shows scores on a Math test

80	70	80	90
70	50	50	80
80	100	50	60
60	30	70	90
100	80	60	100
50	90	60	100

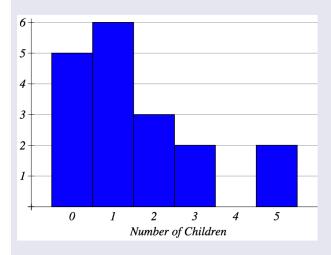
Complete the frequency table for the Math test scores

Score	Frequency
30	
40	
50	
60	
70	
80	
90	
100	

Get help: Video

Show Answer 1,0,4,4,3,5,3,4

A group of adults were asked how many children they have in their families. The bar graph below shows the number of adults who indicated each number of children.



How many adults were questioned?

What percentage of the adults questioned had 0 children? Round to 1 decimal place.

%

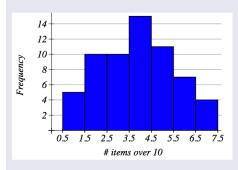
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Show Answer 1

Show Answer 27.7777777778

10.

During one shift, the express lane clerk recorded how many times customers violated the "10 items or less" rule for his lane. In particular, he recorded how many items over the limit each violator placed on the conveyor belt. This data is summarized in the histogram below. NOTE: The last class actually represents "7 or more items," not just 7 items.

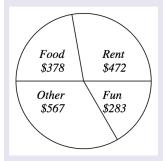


What is the frequency of times the limit was exceeded by at most 2 items?

Answer: times

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Kara categorized her spending for this month into four categories: Rent, Food, Fun, and Other. The amounts she spent in each category are pictured here.



What percent of her total spending did she spend on Rent? Answer to the nearest whole percent.

Get help: Video Video

Show Answer 28

12.

Find the mean and median of the following data set. Round your answers to the nearest hundredth as needed.

1	5	8	7	3	9	5	9	3	9	2

Mean:

Median:

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5

Show Answer 5.55

13.

Find the mode for the following data.

Deliveries Each Week	Frequency
2	6
4	5
6	4
8	2

Mode =

Get help: Video

Show Answer

Show Answer 46

98

14. Consider the following data set. Round your answers to the nearest hundredth as needed. 65 78 76 98 71 52 98 67 98 88 Mean = Median = Mode = Range = Get help: Video Video Show Answer 79.1 Show Answer 77

Calculate the mean and sample standard deviation of the data shown. Round your answers to two decimal places

X	
22	
24	
10	
17	
16	
27	

Mean =

Sample standard deviation =

Get help: Video Video Video

Show Answer 19.33

Show Answer 6.19

16.

Find the 5 number summary for the data shown below.

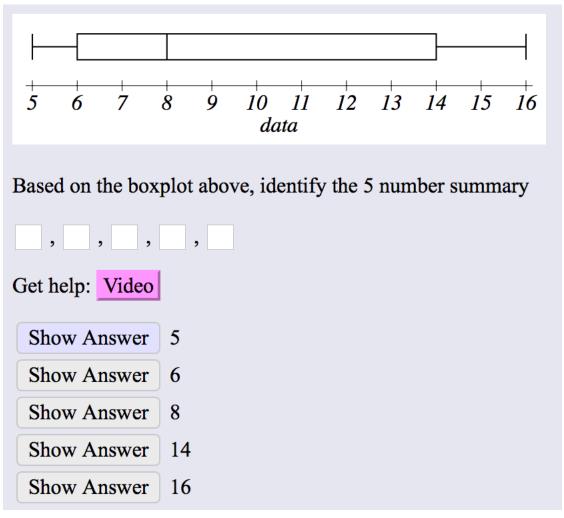
69	67
16	91
39	62
66	96
30	98
48	1
63	

5 number summary:

, , , , , , ,

Get help: Video Video Video Video

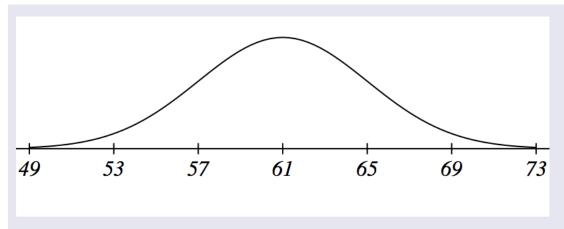
Show Answer 1,39,63,69,98



18.

Complete the following statements. % of the values in a data set lie at or below the median. In general, % of the values in a data set lie at or below the third quartile (Q3). If a sample consists of 900 test scores, of them would be at or below the second quartile (Q2). If a sample consists of 900 test scores, of them would be at or above the first quartile (Q1). Get help: Video Show Answer 50 Show Answer 75 Show Answer 450 Show Answer 675

Complete the follow	wing statements.			
The first quartile (Q1) corresponds to the the percentile.				
The median corresponds to the the percentile.				
The third quartile (Q3) corresponds to the third percentile.				
Get help: Video				
Show Answer 2	25			
Show Answer 5	50			
Show Answer	75			



Based on the graph of this normal distribution,

- a. The mean is
- b. The median is .
- c. The mode is .
- d. The standard deviation is .

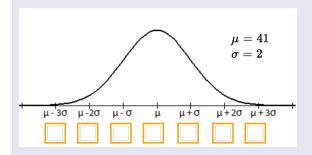
Show Answer 61

Show Answer 61

Show Answer 61

The time to complete an exam is approximately Normal with a mean $\mu = 41$ minutes and a standard deviation $\sigma = 2$ minutes.

The bell curve below represents the distribution for testing times. The scale on the horizontal axis is equal to the standard deviation. Fill in the indicated boxes.



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Show Answer 35

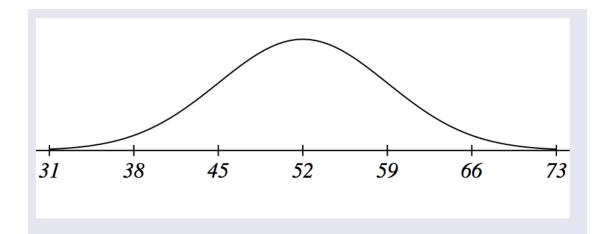
Show Answer 37

Show Answer 39

Show Answer 41

Show Answer 43

Show Answer 45



Based on the graph of this normal distribution,

- a. The mean is .
- b. The standard deviation is
- c. 68% of the data values are between and .
- d. 95% of the data values are between and .
- e. 99.7% of the data values are between and .

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Show Answer 52

Show Answer 7

Show Answer 45

Show Answer 59

Show Answer 38

Show Answer 66

Show Answer 31

2	3
	т.

If the area to the left of x in a normal distribution is 0.741, what is the area to the right of x?

Answer:

If the area to the right of x in a normal distribution is 0.741, what is the area to the left of x?

Answer:

Show Answer 0.259

Show Answer 0.259

24.

Consider the Standard Normal distribution.

The mean is always and the standard deviation is always.

Show Answer 0

Show Answer 1

A set of exam scores are approximately normally distributed with mean = 74 and standard deviation = 7. Use the **Empirical Rule** to determine the area of the shaded regions shown below.

