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HW F16: Final Exam Review

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● Question 2



A political scientist surveys 39 of the current 119 representatives in a state's legislature.

What is the size of the sample:

What is the size of the population:

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● Question 6



Convert the fraction $\frac{19}{25}$ to an equivalent percentage.

Report exact answer (give all decimal places without rounding).

$$\frac{19}{25} = \text{[input box]} \%$$

(do not enter the % sign)

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● Question 12 ▾ < >

Ages	Number of students
15-18	4
19-22	8
23-26	7
27-30	10
31-34	2
35-38	3

Based on the frequency distribution above, find the relative frequency for the class with lower class limit 27

Relative Frequency = %

Give your answer as a percent, rounded to one decimal place

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Question 13



A CBS News poll conducted June 10 and 11, 2006, among a nationwide random sample of 651 adults, asked those adults about their party affiliation (Democrat, Republican or none) and their opinion of how the US economy was changing ("getting better," "getting worse" or "about the same"). The results are shown in the table below.

	better	same	worse
Republican	38	104	44
Democrat	12	87	137
none	21	90	118

Express each of your first five answers as a decimal and round to the nearest 0.001 (in other words, type 0.123, not 12.3% or 0.123456).

What fraction of survey respondents identified themselves as affiliated with neither party?

What fraction of survey respondents thought the economy was about the same?

What fraction of those affiliated with neither party thought the economy was about the same?

Among survey respondents who thought the economy was about the same, what fraction were affiliated with neither party?

What fraction of survey respondents were affiliated with neither party who thought the economy was about the same?



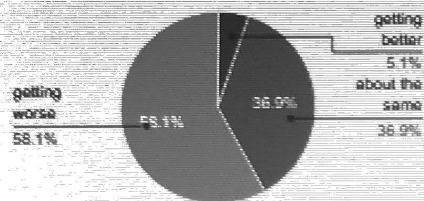
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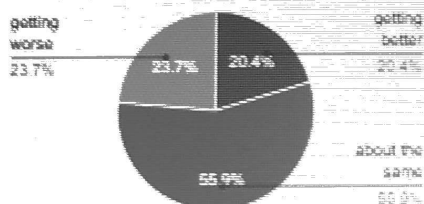
was about the same?

The three pie charts below show the opinions about the economy for each of party:

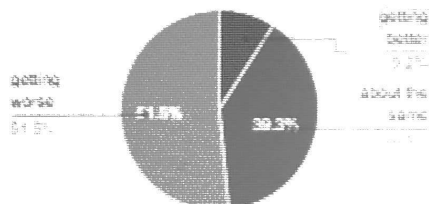
Democrats



Republicans



none



Based on these pie charts, is there evidence that opinion about the economy is independent of party affiliation? Choose the statement below that best answers this question.

- There is evidence that opinion about the economy depends on party affiliation.
- There is evidence that opinion about the economy is not independent of party affiliation.
- There is evidence that opinion about the economy is independent of party affiliation.
- There is evidence that party affiliation depends on opinion about the economy.
- There is evidence that party affiliation and opinion about the economy are dependent.

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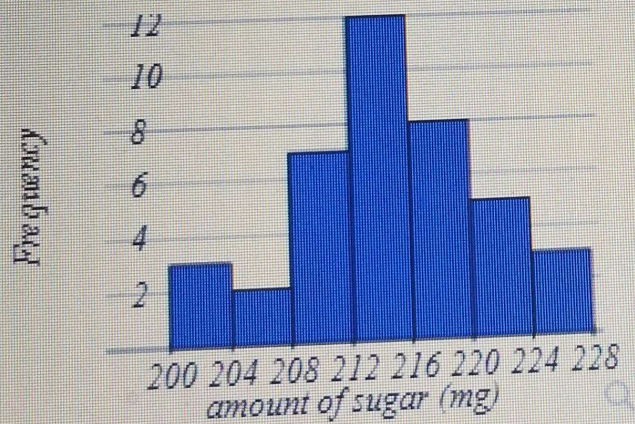
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● Question 14 < >

Data was collected for a sample of organic snacks. The amount of sugar (in mg) in each snack is summarized in the histogram below.



What is the sample size for this data set?

$n =$

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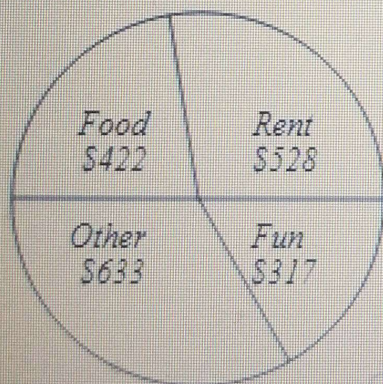
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● Question 15



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.



How much total money did Kara spend this month?

\$

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Question 23



A high school baseball player has a 0.23 batting average. In one game, he gets 8 at bats. What is the probability he will get at least 5 hits in the game?

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● Question 24 < >

In the country of United States of Heightlandia, the height measurements of ten-year-old children are approximately normally distributed with a mean of 55.6 inches, and standard deviation of 3.4 inches.

A) What is the probability that a randomly chosen child has a height of **less** than 48.7 inches?

Answer= (Round your answer to 3 decimal places.)

B) What is the probability that a randomly chosen child has a height of **more** than 51.5 inches?

Answer= (Round your answer to 3 decimal places.)

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