Circle Graphs and Histograms

Name _____ Date __/__/__ Hour ___

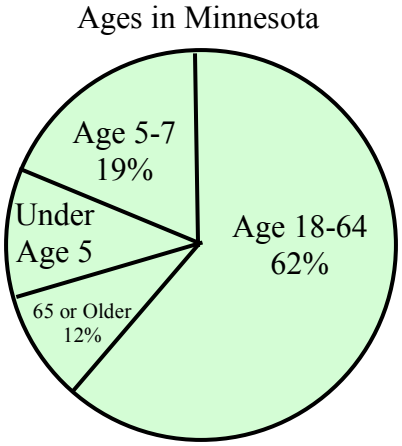
I can display and interpret data from circle graphs and histograms.

1) The circle graph at the right shows the population in Minnesota by age.

a. What percent of the population is under age 5?

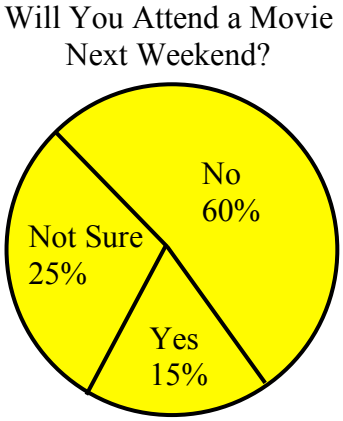
b. What percent of the population is under age 18?

c. The population of Minnesota is about 5,060,000. About how many Minnesotans are age 18-64?



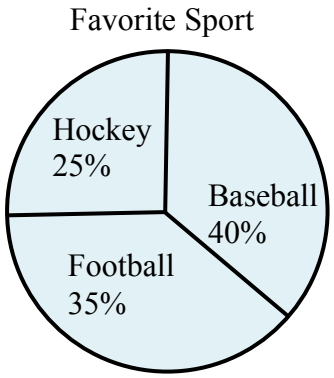
2) The circle graph displays data from a survey where each person could answer *yes*, *no*, or *not sure* to the question, "Will you attend a movie next weekend?" If 60 people were surveyed, how many people answered "yes?"

A) 9
B) 15
C) 24
D) 36

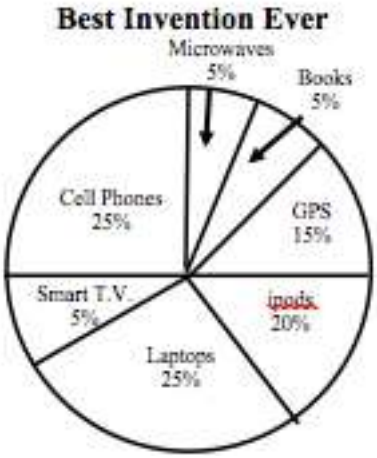


3) The circle graph displays the results of a survey of 150 7th graders. How many 7th graders chose baseball as a favorite sport?

A) 30
B) 40
C) 60
D) 90



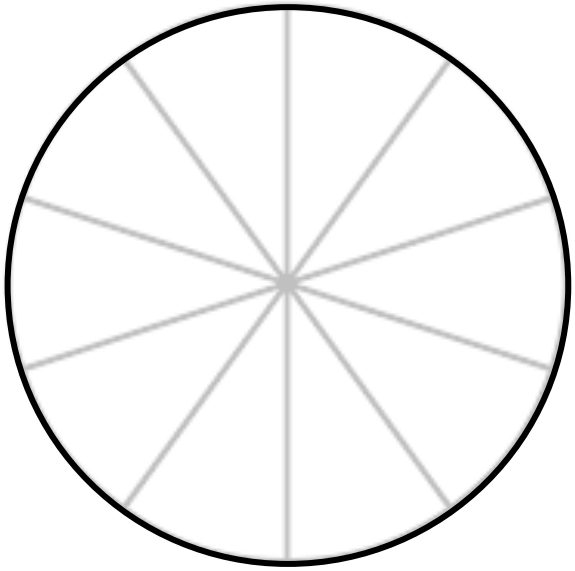
5) The circle graph displays the results of a survey of AMSA 7th graders who were asked the question. "What is the best invention ever?" If **82 seventh graders responded that cell phones are the best invention**, how many 7th graders were surveyed?



6) On a recent survey, 300 7th graders were asked the question, "Of the choices listed, what is your favorite pet?" Construct a circle graph to represent the data.

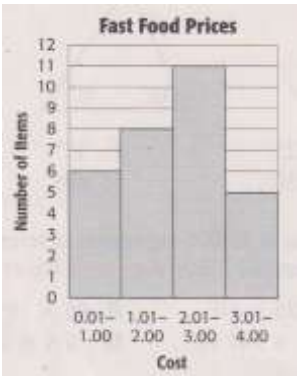
Pets	% of AMSA 7th Graders
snake	5%
horse	5%
dog	50%
bird	10%
cat	20%
other	10%

AMSA 7th Graders Favorite Pets

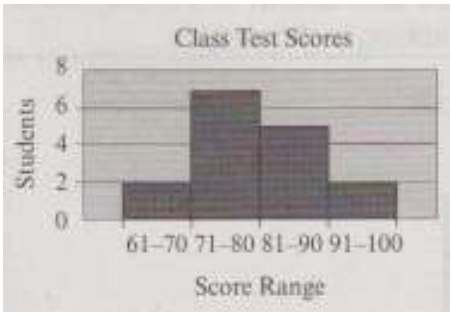


7) The histogram displays data about the prices of 30 items at a fast food restaurant. How many items cost more than $2.00?

A) 11
B) 14
C) 16
D) 24



8) The data in the histogram represent scores on a recent test for one class. Which of the following conclusions cannot be proven?



A) The students did not understand the test material very well.

B) The median test score is in the 71 to 80 range.

C) The same number of people had scores in the 61 to 70 range as in the 91 to 100 range.

D) More students scored in the 71 to 80 range than any other range.

9) An AMSA 7th grade class recently took a survey and were asked the following question: "About how many hours do you spend talking (including texting) on the phone each week?" The responses were as follows:
29, 7, 5, 8, 10, 4, 2, 2, 20, 3, 4, 5, 2, 2, 1, 10, 1, 10, 4, 7, 2, 4, 12, 15, 0.25, 15, 0.25, 50, 1.5,

Complete the frequency table.

Hours Spent Talking on Phone Each Week

	Tally	Frequency
0–4		_____
5–9		_____
10–14		_____
15-19		_____
20 or greater		_____

Create a histogram for the data.