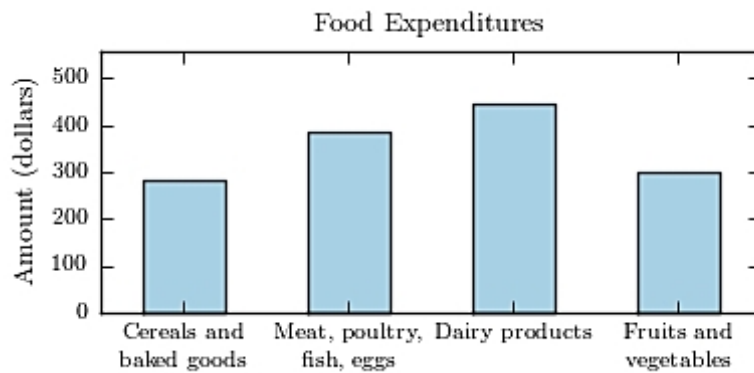Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) The following bar graph presents the average amount a certain family spent, in dollars, o   1) _____
various food categories in a recent year.

On which food category was the most money spent?
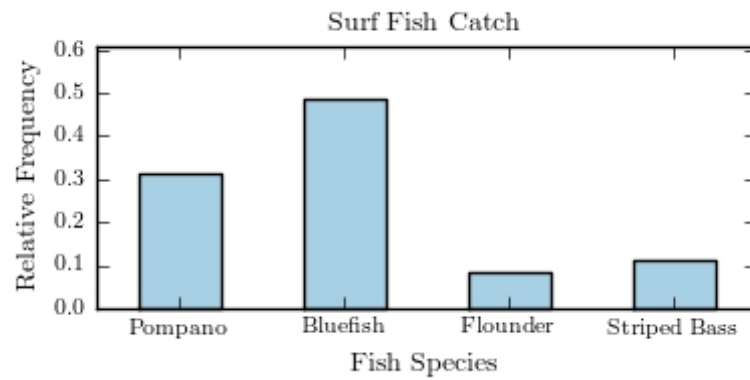
Food Expenditures

A) Dairy products   B) Fruits and vegetables
C) Meat poultry, fish, eggs   D) Cereals and baked goods

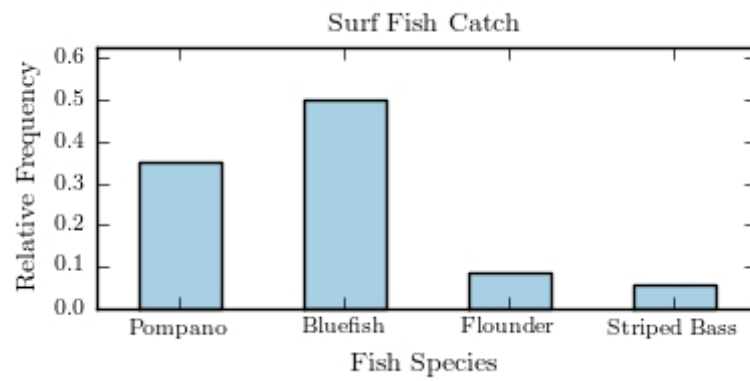2) The following pie chart presents the percentages of fish caught in each of four ratings cat   2) _____
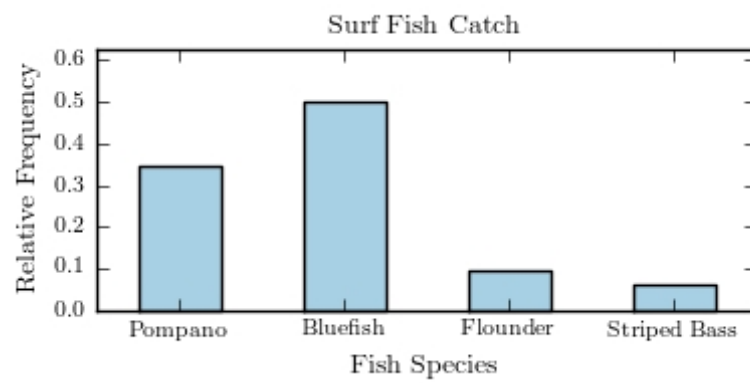
Match this pie chart with its corresponding bar graph.

A)

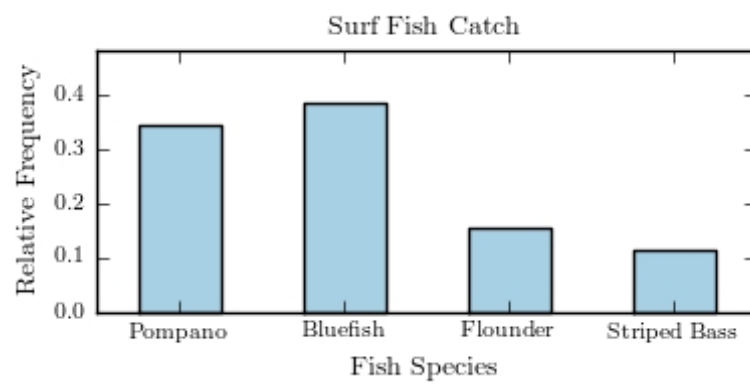**Surf Fish Catch**

B)

Surf Fish Catch

C)

Surf Fish Catch

D)

Surf Fish Catch
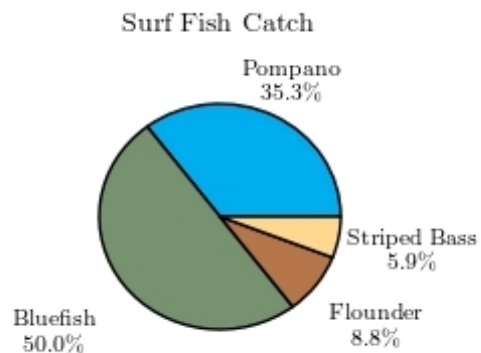
3) The following frequency distribution presents the frequency of passenger vehicles that pa 3) _____
through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

Vehicle Type	Frequency
Motorcycle	5
Sedan	75
SUV	70
Truck	35

Construct a frequency bar graph for the data.
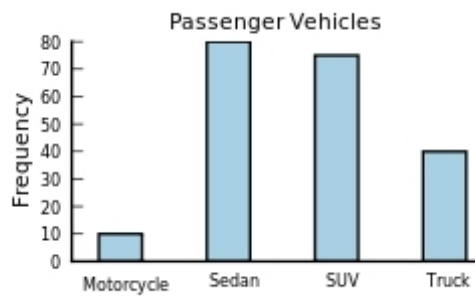
A)

B)

C)

D)

Passenger Vehicles

4) The following frequency distribution presents the frequency of passenger vehicles that pa 4) _____
through a certain intersection from 8:00 AM to 9:00 AM on a particular day.
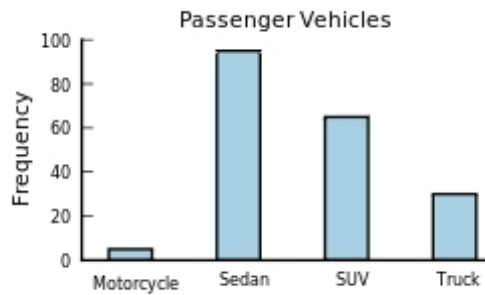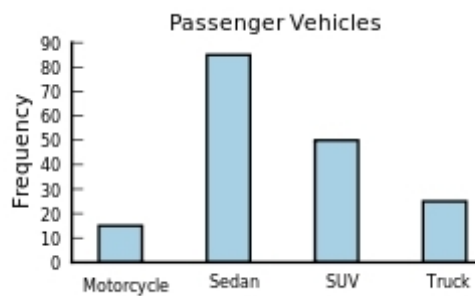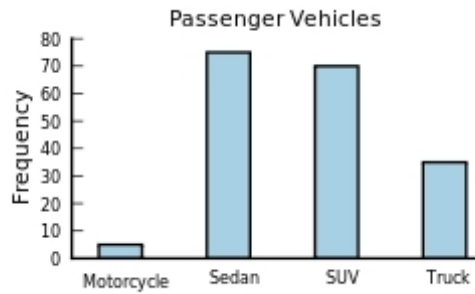
Vehicle Type	Frequency
Motorcycle	7
Sedan	63
SUV	84
Truck	30

Construct a relative frequency distribution for the data.

A)

Vehicle Type	Relative Frequency
Motorcycle	0.038
Sedan	0.342
SUV	0.457
Truck	0.163

B)

Vehicle Type	Relative Frequency
Motorcycle	0.038%
Sedan	0.342%
SUV	0.457%
Truck	0.163%

C)

Vehicle Type	Relative Frequency
Motorcycle	0.07
Sedan	0.63
SUV	0.84
Truck	0.3

4

D)

Vehicle Type	Relative Frequency
Motorcycle	0.083
Sedan	0.75
SUV	1
Truck	0.357

5) The following frequency distribution presents the frequency of passenger vehicles that pa   5) _____
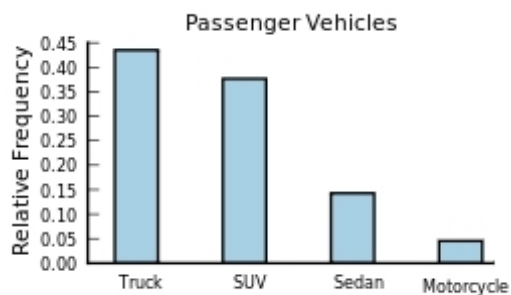through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

Vehicle Type	Frequency
Motorcycle	7
Sedan	22
SUV	58
Truck	67

Construct a relative frequency Pareto chart for the data.

A)

B)

C)

Passenger Vehicles

D)

Passenger Vehicles
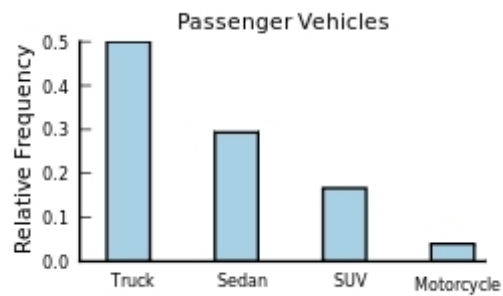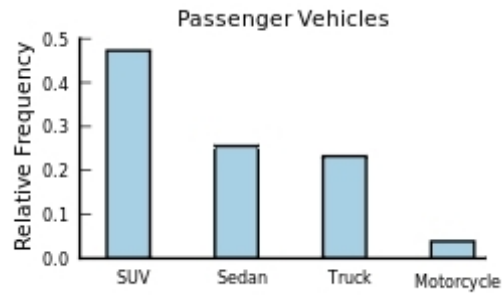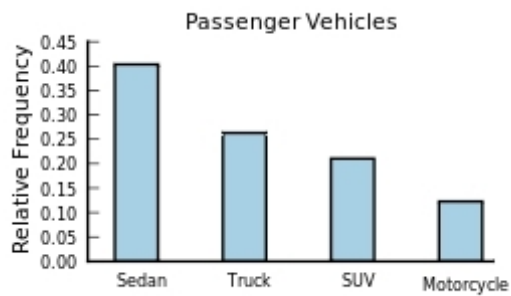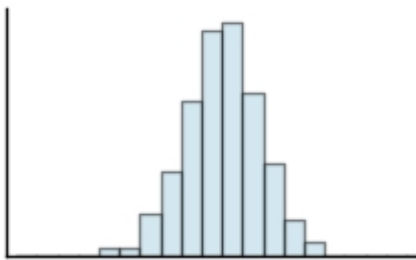
6) Classify the histogram as skewed to the left, skewed to the right, or approximately symm   6) _____

A) skewed to the right
B) approximately symmetric
C) skewed to the left

7) One hundred students are shown an eight-digit number on a piece of cardboard for three   7) _____
and are asked to then recite the number from memory. The process is repeated until the s
accurately recites the entire number from memory. The following histogram presents the
number of trials it took each student to memorize the number.
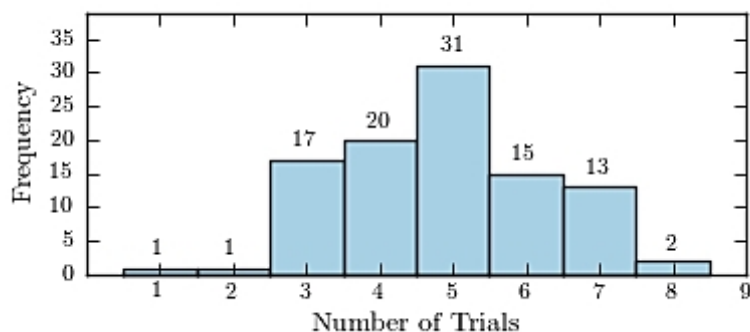
How many students memorized the number in three trials or less?
   A) 2   B) 81   C) 24   D) 19

8) The following frequency distribution presents the weights in pounds (lb) of a sample of ·   8) _____
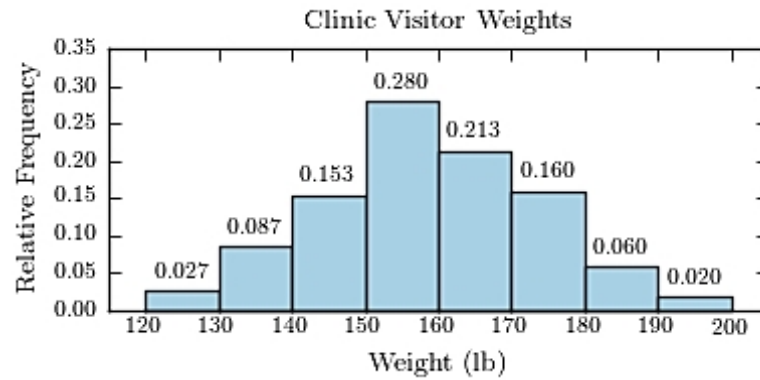a health clinic.

Clinic Visitor Weights	
Weight (lb)	Frequency
120-129	4
130-139	13
140-149	23
150-159	42
160-169	32
170-179	24
180-189	9
190-199	3

Construct a relative frequency histogram.
   A)

B)

Clinic Visitor Weights

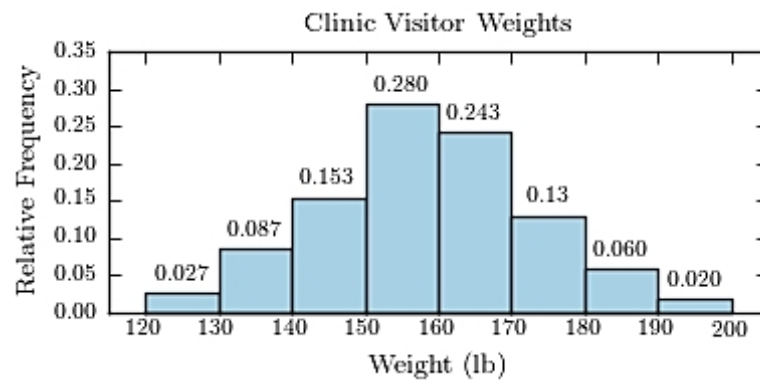C)

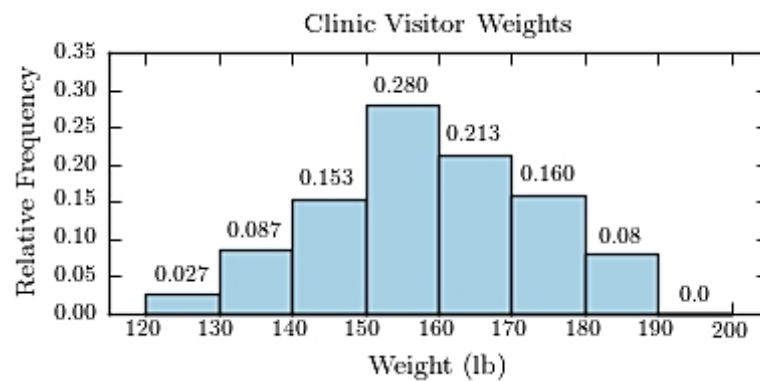**Clinic Visitor Weights**

D)

Clinic Visitor Weights
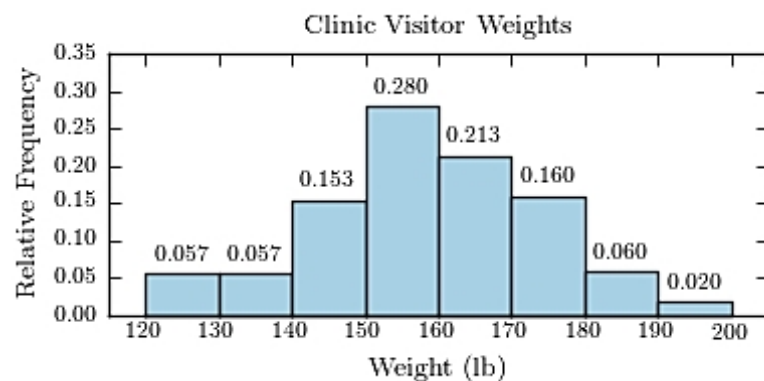
9) The following table presents the purchase totals (in dollars) of a random sample of gasol   9) _____
purchases at a convenience store.

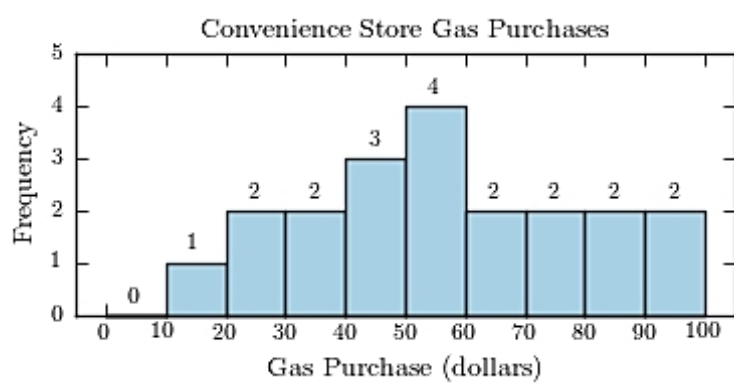Construct a frequency histogram using a class width of 10, and using 0 as the lower class
limit for the first class.

69	55	17	55	81
66	99	44	34	79
22	83	91	15	35
53	74	40	55	49

A)

Convenience Store Gas Purchases

B)

Convenience Store Gas Purchases

C)

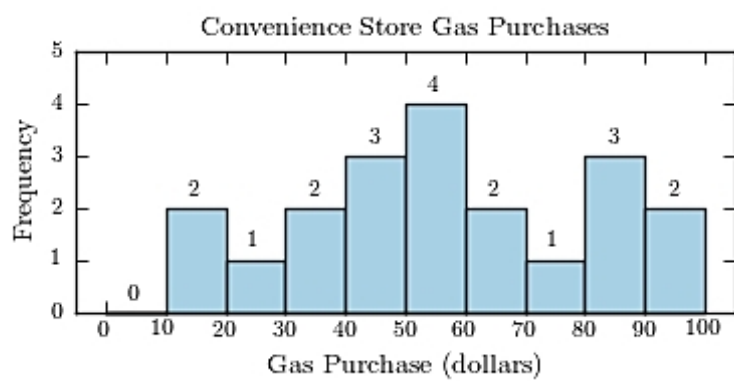Convenience Store Gas Purchases
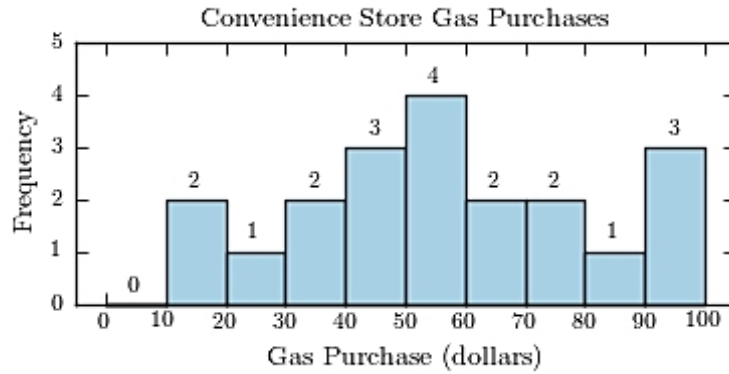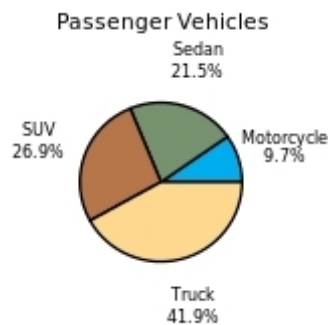
D)

Convenience Store Gas Purchases
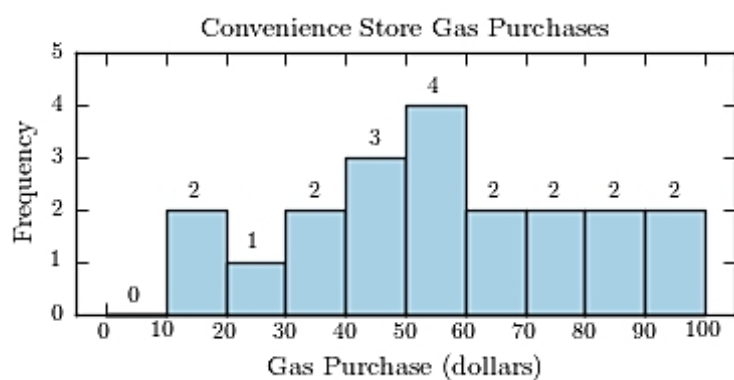
10) The following frequency distribution presents the frequency of passenger vehicles that pass   10) _____
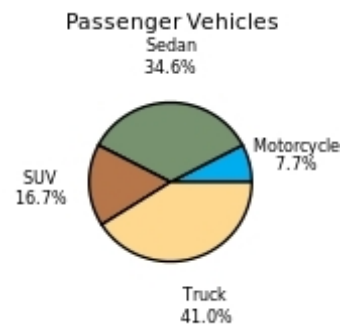through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

Vehicle Type	Frequency
Motorcycle	12
Sedan	54
SUV	26
Truck	64

Construct a pie chart for the data.

A)

Passenger Vehicles
Sedan 21.5%
SUV 26.9%
Motorcycle 9.7%
Truck 41.9%

B)

Passenger Vehicles
Sedan 34.6%
SUV 16.7%
Motorcycle 7.7%
Truck 41.0%

C)

Passenger Vehicles
Sedan 31.3%
Motorcycle 7.2%
SUV 36.1%
Truck 25.3%

D)

Passenger Vehicles
Sedan 34.1%
Motorcycle 6.9%
SUV 22.0%
Truck 37.0%
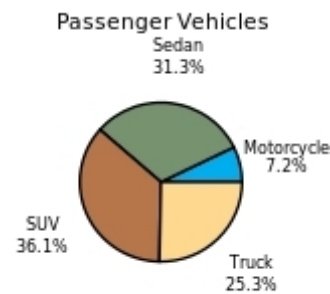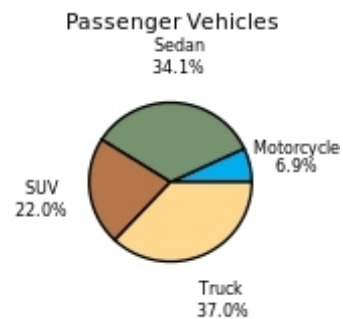
1) A
2) B
3) D
4) A
5) B
6) B
7) D
8) B
9) A
10) B