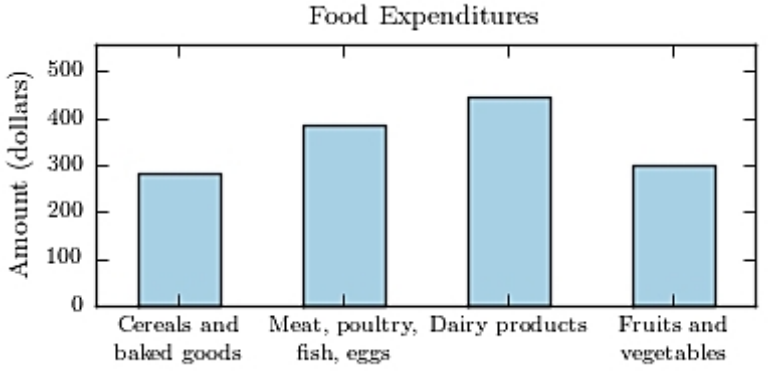
Exam

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.

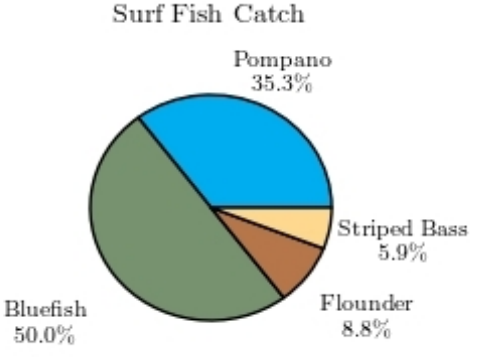
On which food category was the most money spent?



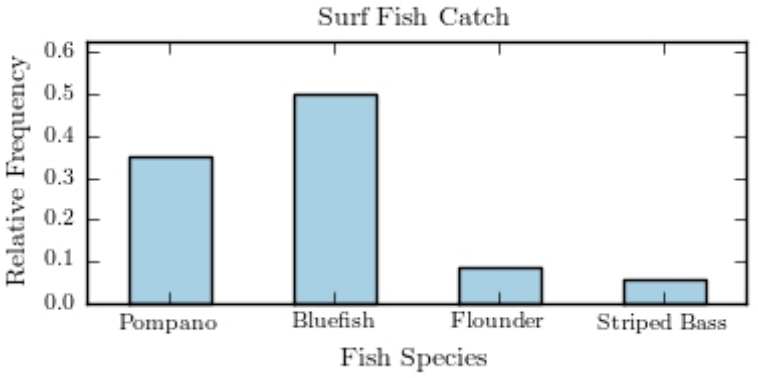
A) Meat poultry, fish, eggs
B) Dairy products
C) Cereals and baked goods
D) Fruits and vegetables

2) The following pie chart presents the percentages of fish caught in each of four ratings cat 2) _____

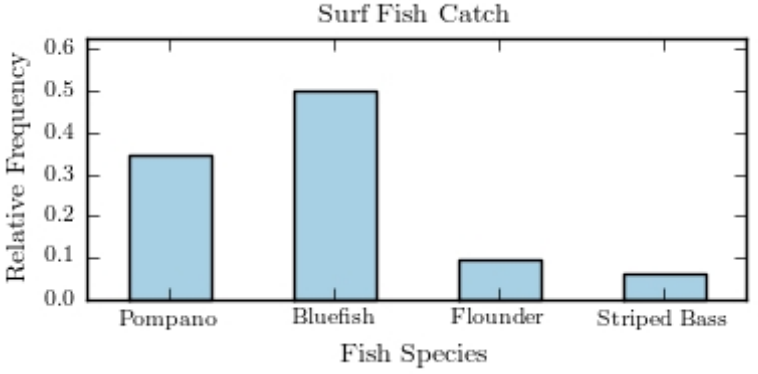
Match this pie chart with its corresponding bar graph.



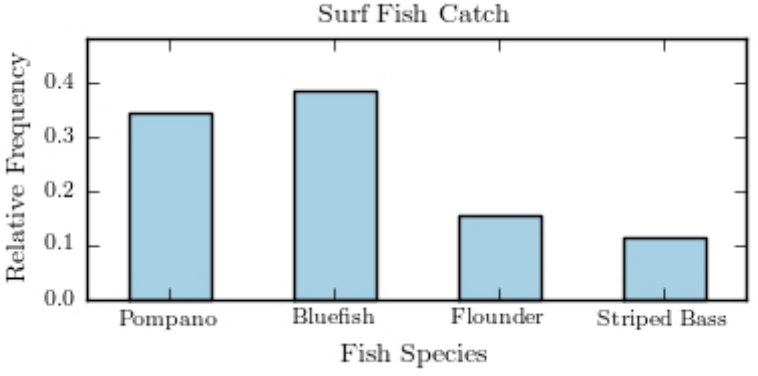
A)


Surf Fish Catch
Relative Frequency
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Pompano
Bluefish
Flounder
Striped Bass
Fish Species

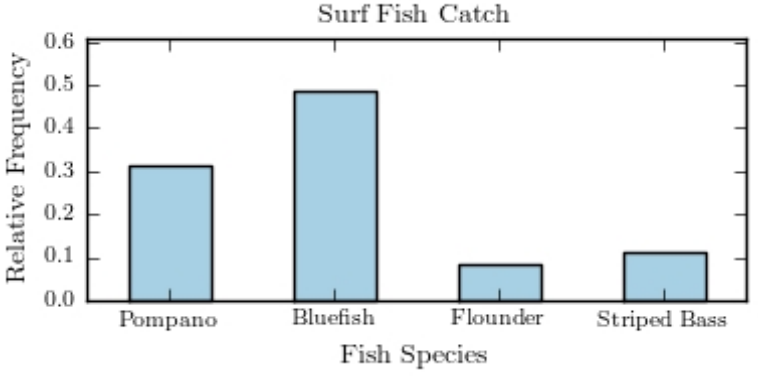
B)


Surf Fish Catch
Relative Frequency
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Pompano
Bluefish
Flounder
Striped Bass
Fish Species

C)

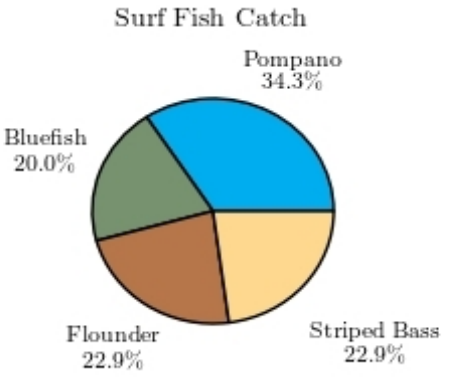

Surf Fish Catch
Relative Frequency
0.0
0.1
0.2
0.3
0.4
Pompano
Bluefish
Flounder
Striped Bass
Fish Species

D)

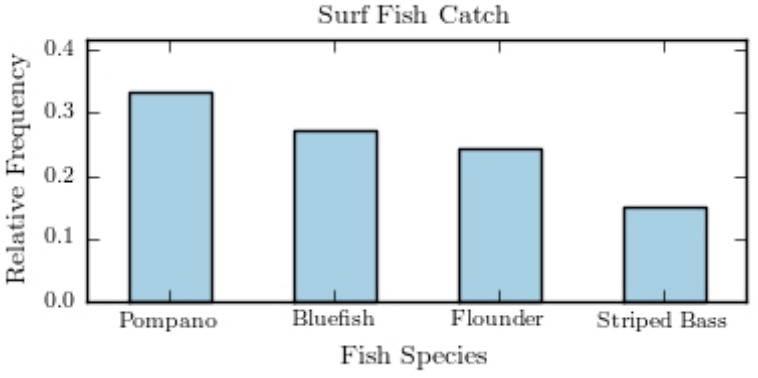

Surf Fish Catch
Relative Frequency
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Pompano
Bluefish
Flounder
Striped Bass
Fish Species

3) The following pie chart presents the percentages of fish caught in each of four ratings cat 3) _____

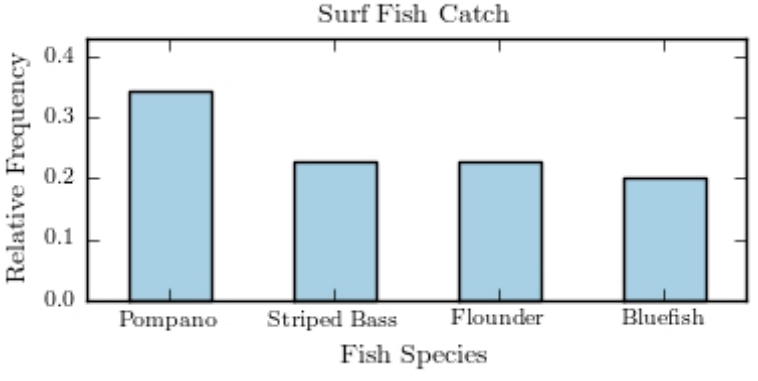
Match this pie chart with its corresponding Pareto chart.



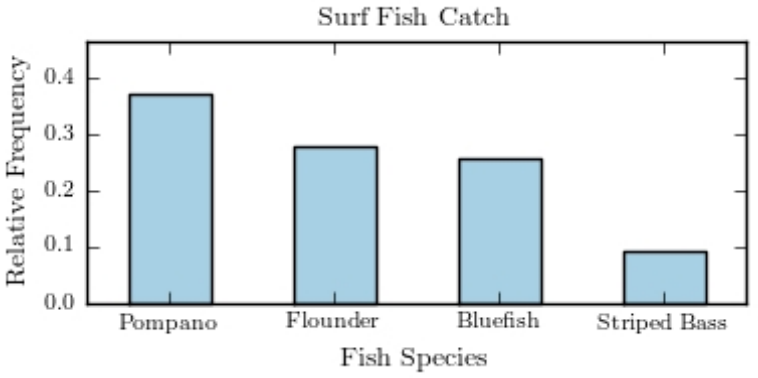
A)



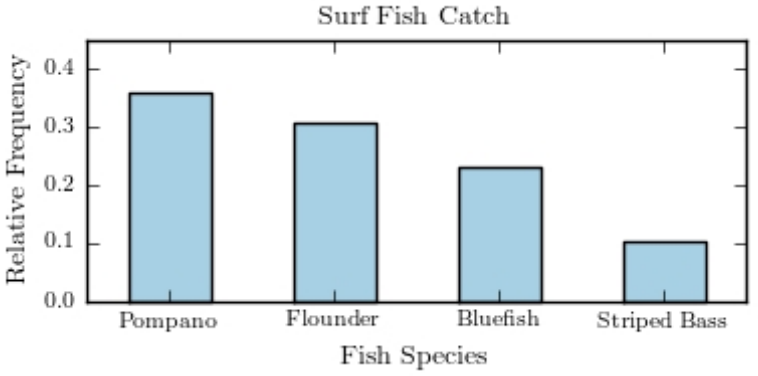
B)



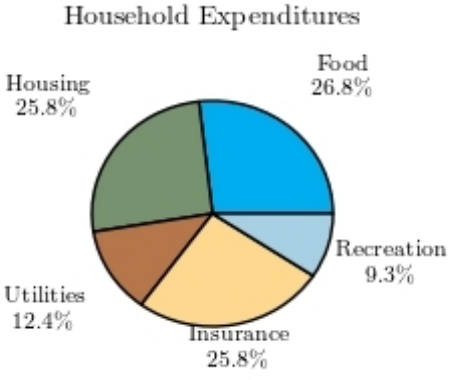
C)



D)



4) Following is a pie chart that presents the percentages spent by a certain household on its largest annual expenditures. What percentage of the money spent was spent on food, hou and utilities? 4) _____



A) 50% B) 65% C) 61.9% D) 52.6%

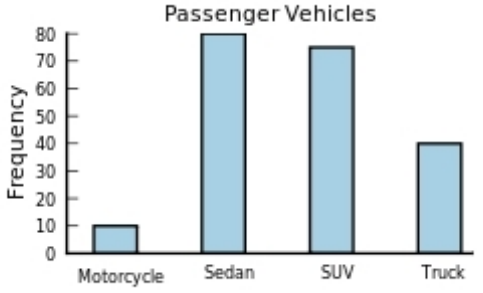
5) The following frequency distribution presents the frequency of passenger vehicles that pa through a certain intersection from 8:00 AM to 9:00 AM on a particular day. 5) _____

Vehicle Type	Frequency
Motorcycle	5
Sedan	75

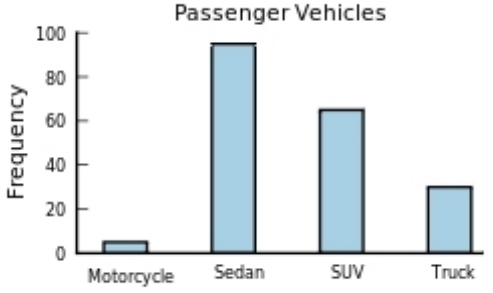
SUV	70
Truck	35

Construct a frequency bar graph for the data.

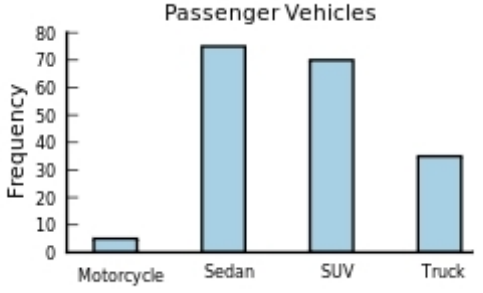
A)



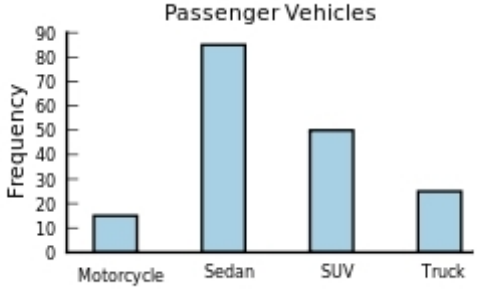
B)



C)



D)



6) The following frequency distribution presents the frequency of passenger vehicles that pa 6) _____
through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

Vehicle Type	Frequency
Motorcycle	15
Sedan	80
SUV	88
Truck	34

What is the relative frequency of the Motorcyle category?

A) 0.069 B) 15% C) 15 D) 0.17

7) The following frequency distribution presents the frequency of passenger vehicles that pa 7) _____
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	0.083
Sedan	0.75
SUV	1
Truck	0.357

B)

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

C)

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

D)

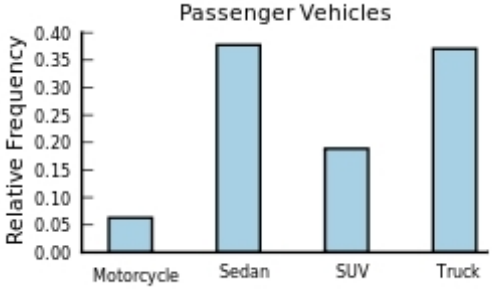
Vehicle Type	Relative Frequency
Motorcycle	0.038%
Sedan	0.342%
SUV	0.457%
Truck	0.163%

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

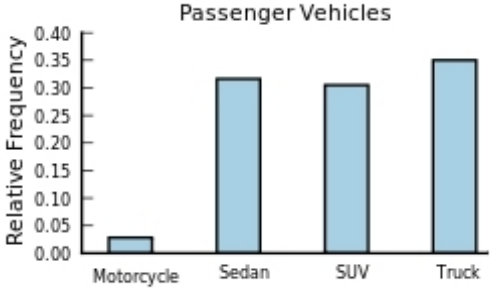
Vehicle Type	Frequency
Motorcycle	9
Sedan	54
SUV	27
Truck	53

Construct a relative frequency bar graph for the data.

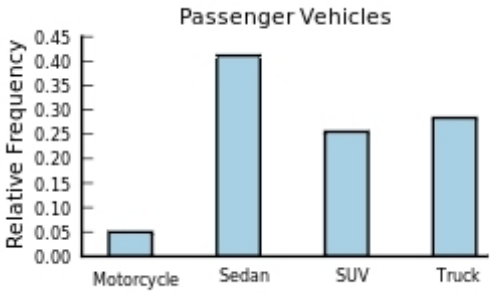
A)



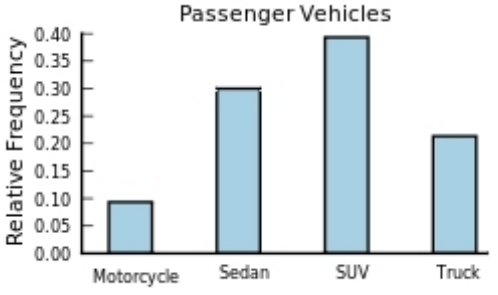
B)



C)



D)

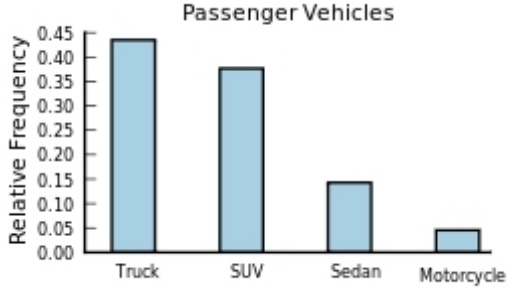


9) The following frequency distribution presents the frequency of passenger vehicles that pa 9) _____
through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

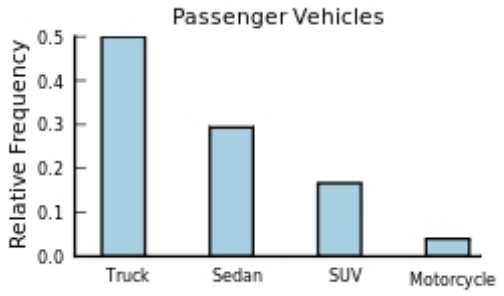
Vehicle Type	Frequency
Motorcycle	7
Sedan	22
SUV	58
Truck	67

Construct a relative frequency Pareto chart for the data.

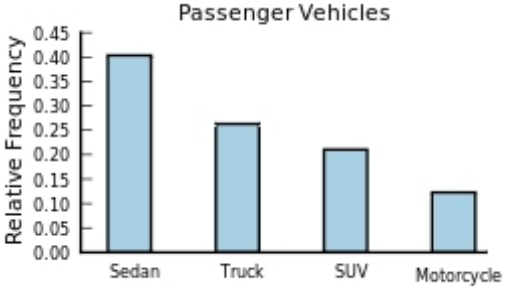
A)



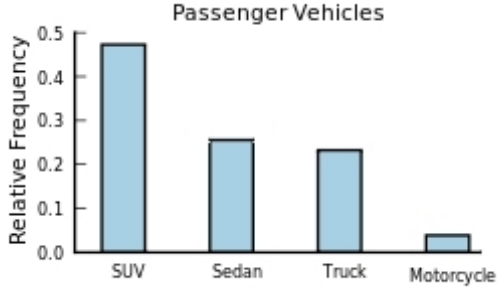
B)



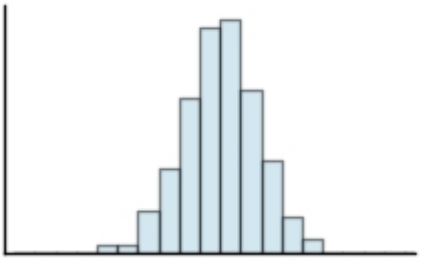
C)



D)



10) Classify the histogram as skewed to the left, skewed to the right, or approximately symm 10) _____



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

11) The following frequency distribution presents the weights in pounds (lb) of a sample of v 11) _____
a health clinic.

Weight (lb)	Frequency
100-103	2
104-107	1
108-111	4
112-115	4
116-119	10
120-123	9
124-127	4
128-131	1

What is the class width?

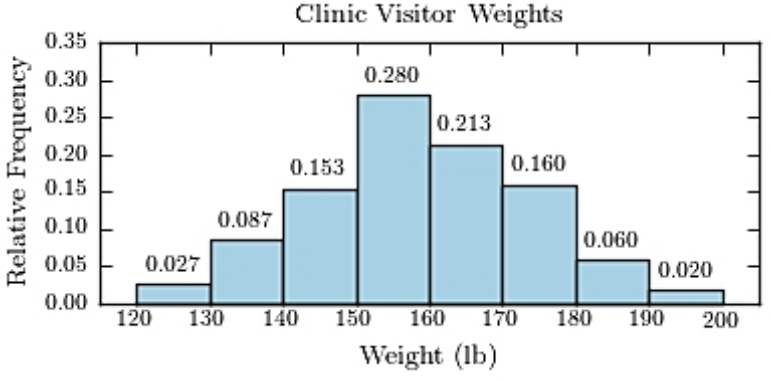
A) 4 B) 3 C) 32 D) 5

12) The following frequency distribution presents the weights in pounds (lb) of a sample of v 12) _____
a health clinic.

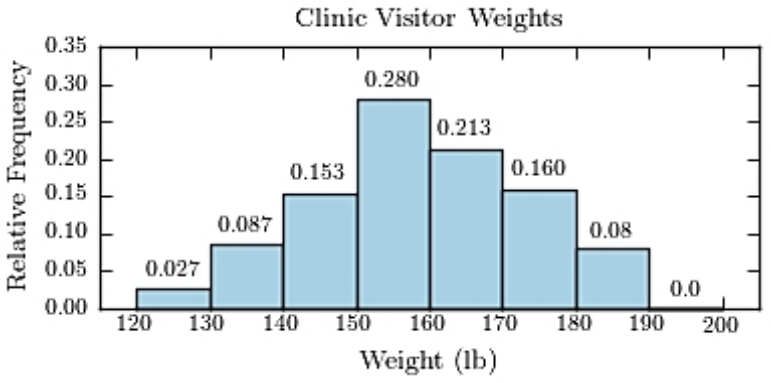
Clinic Visitor Weights	
Weight (lb)	Frequency
120-129	4
130-139	13
140-149	23
150-159	42
160-169	32
170-179	24
180-189	9
190-199	3

Construct a relative frequency histogram.

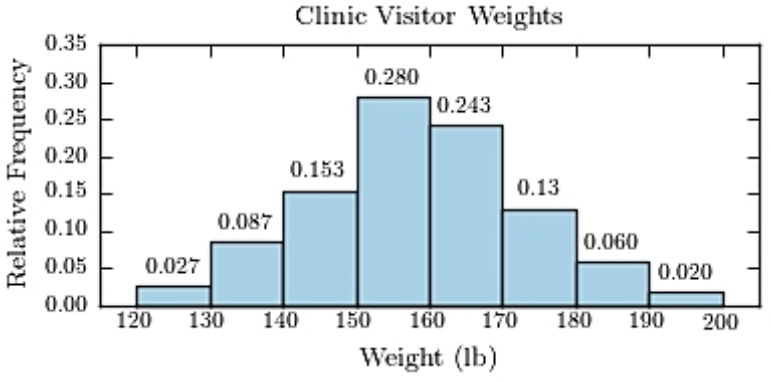
A)



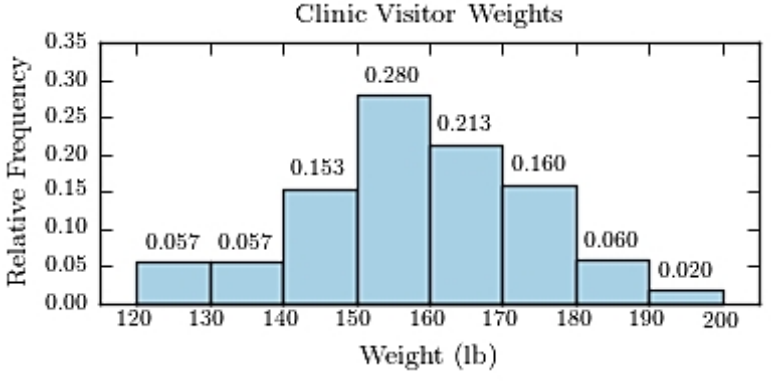
B)



C)



D)



13) The following table presents the purchase totals (in dollars) of a random sample of gasol purchases at a convenience store. 13) _____

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

76.59	48.55	93.66	60.17	39.10
93.28	65.43	34.12	80.41	77.16
80.07	93.46	39.19	43.84	44.70
68.74	89.98	6.97	52.86	68.93

A)

Convenience Store Gas Purchases	
Amount (dollars)	Frequency
0.00-9.99	1
10.00-19.99	0
20.00-29.99	0
30.00-39.99	3
40.00-49.99	3
50.00-59.99	1
60.00-69.99	4
70.00-79.99	2
80.00-89.99	4
90.00-99.99	2

B)

Convenience Store Gas Purchases	
Amount (dollars)	Frequency
0.00-9.99	1
10.00-19.99	0
20.00-29.99	0
30.00-39.99	4
40.00-49.99	2
50.00-59.99	1
60.00-69.99	4
70.00-79.99	2
80.00-89.99	3
90.00-99.99	3

C)

Convenience Store Gas Purchases	
Amount (dollars)	Frequency
0.00-9.99	1
10.00-19.99	0
20.00-29.99	0
30.00-39.99	3
40.00-49.99	3
50.00-59.99	1
60.00-69.99	4
70.00-79.99	2
80.00-89.99	3
90.00-99.99	3

D)

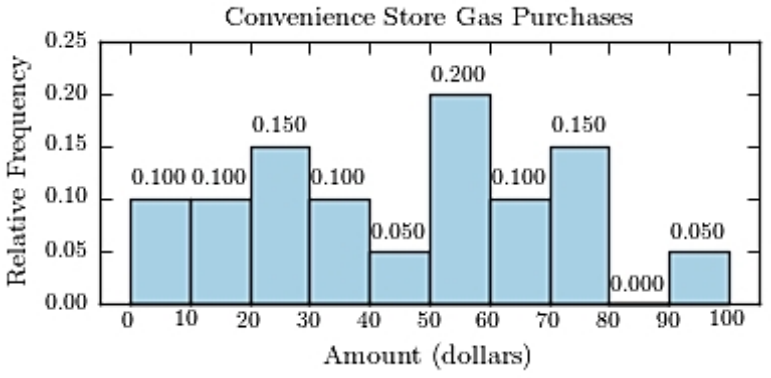
Convenience Store Gas Purchases	
Amount (dollars)	Frequency
0.00-9.99	1
10.00-19.99	0
20.00-29.99	1
30.00-39.99	2
40.00-49.99	3
50.00-59.99	1
60.00-69.99	4
70.00-79.99	2
80.00-89.99	3
90.00-99.99	3

14) The following table presents the purchase totals (in dollars) of a random sample of gasol 14) _____
purchases at a convenience store.

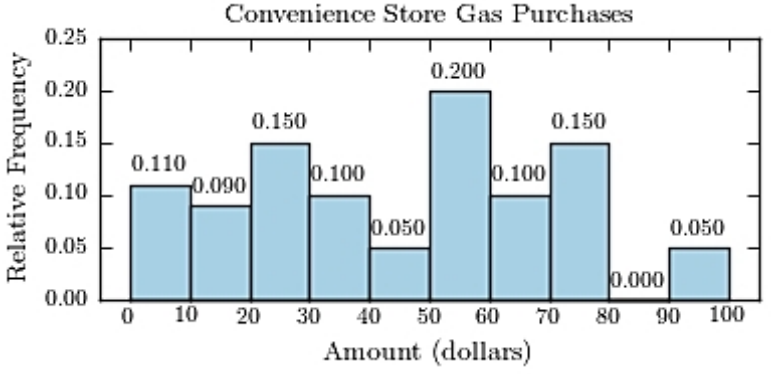
Construct a relative frequency histogram using a class width of 10, and using 0 as the lov
limit for the first class.

51.13	6.11	36.05	22.27	94.54
49.64	52.78	79.28	51.88	6.29
33.57	53.92	24.91	23.89	79.10
14.86	63.94	15.87	76.44	60.96

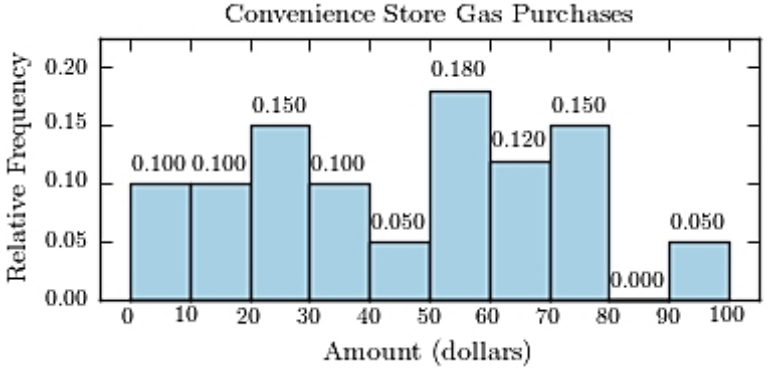
A)


Convenience Store Gas Purchases
Relative Frequency
0.25
0.20
0.15
0.10
0.05
0.00
0.100 0.100 0.150 0.100 0.050 0.200 0.100 0.150 0.000 0.050
0 10 20 30 40 50 60 70 80 90 100
Amount (dollars)

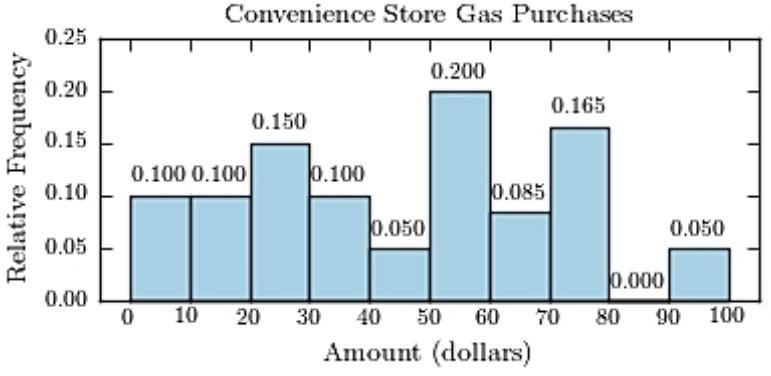
B)


Convenience Store Gas Purchases
Relative Frequency
0.25
0.20
0.15
0.10
0.05
0.00
0.110 0.090 0.150 0.100 0.050 0.200 0.100 0.150 0.000 0.050
0 10 20 30 40 50 60 70 80 90 100
Amount (dollars)

C)


Convenience Store Gas Purchases
Relative Frequency
0.20
0.15
0.10
0.05
0.00
0.100 0.100 0.150 0.100 0.050 0.180 0.120 0.150 0.000 0.050
0 10 20 30 40 50 60 70 80 90 100
Amount (dollars)

D)


Convenience Store Gas Purchases
Relative Frequency
0.25
0.20
0.15
0.10
0.05
0.00
0.100 0.100 0.150 0.100 0.050 0.200 0.085 0.165 0.000 0.050
0 10 20 30 40 50 60 70 80 90 100
Amount (dollars)

Answer Key
Testname: W01-PRACTICEEXERCISES-PAPERBASED

1) B
2) A
3) B
4) B
5) C
6) A
7) C
8) A
9) A
10) C
11) A
12) A
13) C
14) A