Gas Prices at Fuel'n'Flee

Cost per Gallon (in dollars): 2.7, 2.4, 2.1, 1.8, 1.5, 1.2, 0.9, 0.6, 0.3, 0
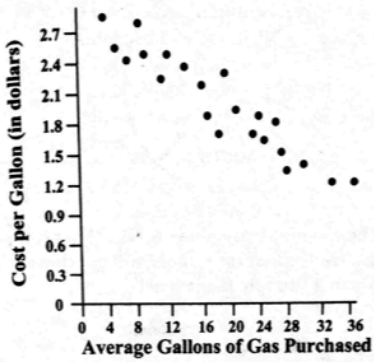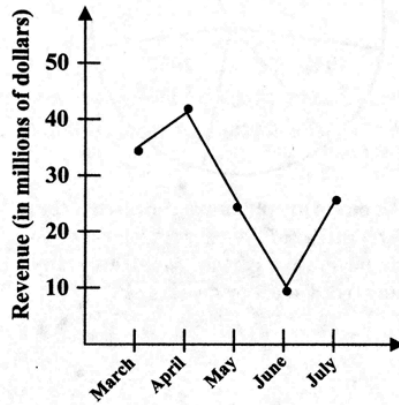Average Gallons of Gas Purchased: 0 4 8 12 16 20 24 28 32 36

1. Gas prices at Fuel'n'Flee vary according to world petroleum supplies. Which of the following conclusions about the average gallons of gas purchased and the cost per gallon is best supported by the scatterplot above?

A   The cost per gallon increases as the average gallons of gas purchased increases.

B   The cost per gallon is unchanged as the average gallons of gas purchased increases.

C   The cost per gallon decreases as the average gallons of gas purchased increases.

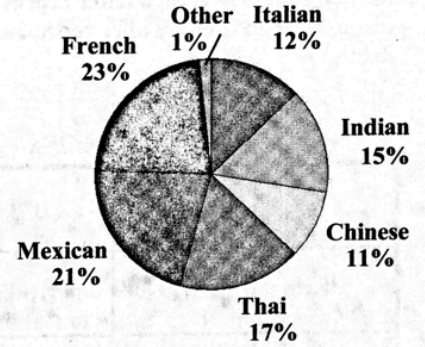D   There is no relationship between the cost per gallon and the average gallons of gas purchased.

4. The graph below represents the revenue of a certain company over a five-month period.

Revenue (in millions of dollars): 10, 20, 30, 40, 50
Months: March, April, May, June, July

Which month had the greatest increase in revenue over that of the previous month?

A   April

B   May

C   June

D   July

19. Adrian wanted to see what type of cuisine her family ate most often when she and her parents went out to eat.

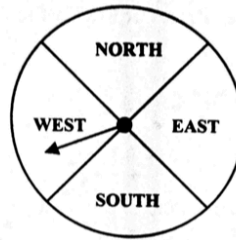Other 1%, Italian 12%, French 23%, Indian 15%, Mexican 21%, Chinese 11%, Thai 17%

According to the graph shown above—

A   Adrian's family ate French or Chinese more often than Mexican or Thai.

B   Adrian's family ate Mexican more than Italian and Thai combined.

C   Adrian's family ate Italian, Mexican, or Indian less than half the time.

D   Adrian's family ate French, Italian, or Other more than half the time.

Batter's Name	Home Runs	At-Bats
Todd	24	212
Sarah	6	25

7. Todd used the data in the table above to brag to his friends, "I'm the best batter. I've hit four times as many home runs as Sarah." Why is this claim misleading?

A   On the average, Todd has more home runs per at-bat.

B   Todd should say, "three times as many home runs."

C   Todd should say, "400% more home runs."

D   On the average, Sarah has more home runs per at-bat.

NORTH, WEST, EAST, SOUTH

6. The spinner shown above is fair. What is the probability that the spinner will not stop on North if you spin it one time?
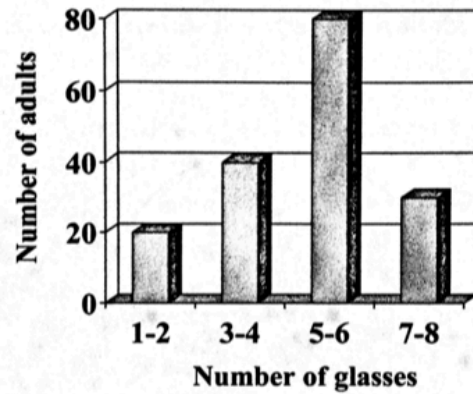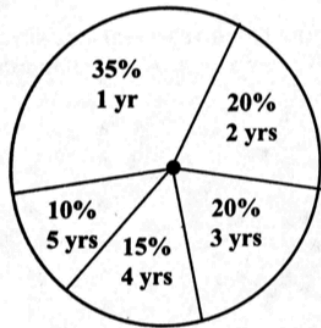
A $\frac{1}{4}$

B $\frac{1}{3}$

C $\frac{3}{4}$

D $\frac{4}{3}$

9. The chart below shows the trial times of three drag racers.

Drag Race Times (in seconds)

	Trial 1	Trial 2	Trial 3	Trial 4
Baxter	7	8	10	6
Clifton	6	7	9	10
Decker	8	10	10	9

What is Clifton's mean time, in seconds?

A   6

B   7

C   8

D   9

2. The circle graph above represents the distribution of the ages (in years) of 60 kangaroos in a certain zoo. How many kangaroos are 3 or 4 years old?
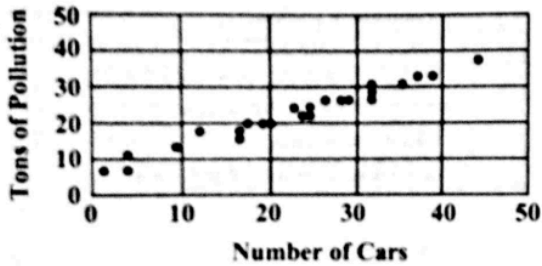
A 12

B 21

C 30

D 35

26. The graph above shows the number of glasses of water a selected group of adults drinks per day. How many of these adults drink <u>fewer</u> than 7 glasses?
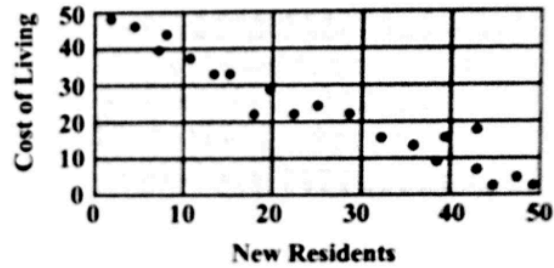
A 35

B 60

C 80

D 140
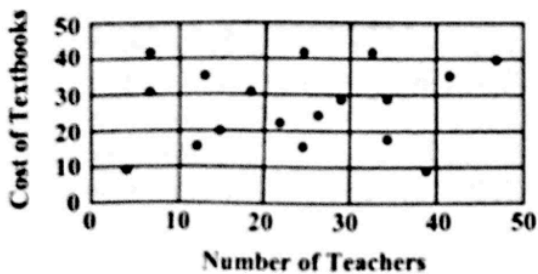
10. Which scatterplot shows a negative correlation?

A

C

B

D