36. Donald priced six personal Compact Dise (CD) players. The prices are shown below.
$\$ 21.00, \$ 23.00, \$ 21.00, \$ 39.00, \$ 25.00, \$ 31.00$
What is the median price?
A $\$ 21.00$
B $\$ 24.00$
C $\$ 27.00$
D $\$ 30.00$
37. Rico's first three test scores in biology were $\mathbf{6 5 , 9 0}$, and 73. What was his mean score?
A 65
B 73
C 76
D 90
38. The chart below shows the mathematics test scores of three students.

| $c$ | Mathematics Test Scores |  |  |  |
| :--- | :---: | :---: | ---: | ---: |
|  | Test <br> $\mathbf{1}$ | Test <br> $\mathbf{2}$ | Test <br> $\mathbf{3}$ | Test <br> $\mathbf{4}$ |
| Parisa | 7 | 8 | 10 | 6 |
| Hector | 6 | 7 | 9 | 10 |
| Charles | 8 | 10 | 10 | 9 |

What is Hector's mean score?
A 6
B 7
C 8
D 9
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39. The box below shows the number of kilowatt-hours of electricity used last month at each of the houses on Harris Street.
$620,570,570,590,560,640,590,590,580$
What is the mode of these data?
A 560
B 580
C 590
D 640
40. The Smithburg town library wanted to see what types of books were borrowed most often.


According to the circle graph shown above-
A more Children's books were borrowed than Romance and Science Fiction combined.
B more than half of the books borrowed were Children's, Mysteries, and Art combined.
C more Mysteries were borrowed than Art and Science Fiction combined.
D more than half of the books borrowed were more than half of the books borrowed were
Romance, Mysteries, and Science Fiction combined.
41. Three-fourths of the $\mathbf{3 6}$ members of a club attended a meeting. Ten of those attending the meeting were female. Which one of the following questions can be answered with the information given?

A How many males are in the club?
B How many females are in the club?
C How many male members of the club attended the meeting?
D How many female members of the club did not attend the meeting?
42. The number of games won over four years for three teams is shown on the graph below.


Which statement is true based on this information?

A Team 3 always came in second.
B Team 1 had the best average overall
C Team 1 always won more games than Team 3.
D Team 2 won more games each year than in the previous year.
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California High School Exit Examination
44. To get home from work, Curtis must get on one of the three highways that leave the city. He then has a choice of four different roads that lead to his house. In the diagram below, each letter represents a highway, and each number represents a road.

|  | Highway |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | A |  | B | C |
|  | Road | A 1 | B 1 | C 1 |
|  | 2 | A 2 | B 2 | C 2 |
|  | 3 | A 3 | B 3 | C 3 |
|  | 4 | A 4 | B 4 | C 4 |

If Curtis randomly chooses a route to travel home, what is the probability that he will travel Highway B and Road 4?

A $\frac{1}{16}$
B $\frac{1}{12}$
C $\frac{1}{4}$
D $\frac{1}{3}$
15. The table below shows all of the possible outcomes when flipping three fair coins at the same time.

| First <br> Coin | Second <br> Coin | Third <br> Coin |
| :---: | :---: | :---: |
| H | H | H |
| H | H | T |
| H | T | H |
| H | T | T |
| T | H | H |
| T | H | T |
| T | T | H |
| T | T | T |

Which of the following statements must be true?

A The probability that exactly two coins have the same outcome is $\frac{1}{2}$
B The probability of getting exactly one tail is higher than getting exactly two tails.
C The probability of getting at least one head is higher than the probability of getting at least one tail.

D The probability that all of the coins will land on heads is the same as the probability that all of the coins will land on tails.

California High School Exit Examination
46. Carmen wants to buy a new car. Her choices are a 2-door or a 4-door, a convertible top or a hard top, and red, white, or black. Which of the following tree diagrams represents all the possible choices for the car?
A
$2-\mathrm{C}<\begin{gathered}\mathrm{R} \\ \mathrm{W} \\ \mathrm{B} \\ \mathrm{R}\end{gathered}$
$4-\mathrm{H}<\begin{gathered}\mathrm{W} \\ \mathrm{W}\end{gathered}$

C

$$
\begin{aligned}
& 2-\mathrm{C}-\mathrm{H}<\begin{array}{c}
\mathrm{R} \\
\mathrm{~W} \\
\mathrm{~B}
\end{array} \\
& 4-\mathrm{C}-\mathrm{H}<\begin{array}{c}
\mathrm{R} \\
\mathrm{~W} \\
\mathrm{~B}
\end{array}
\end{aligned}
$$

D


47. A restaurant is advertising 3-item combination specials that must include a main dish, a vegetable, and a drink.

| Lunch Specials |  |  |
| :---: | :---: | :---: |
| Main Dish Vegetable Drink <br> Chicken Broccoli Water <br> Beef Carrots Soft drink <br>  Peas Milk <br>  Corn  |  |  |

How many 3-item combinations include a soft drink and corn?
A 2
B 3
C 4
D 8
48. A bucket contains 3 bottles of apple juice, 2 bottles of orange juice, 6 bottles of tomato 2 bottles of orange juice, $\mathbf{6}$ bottles of juice, and 8 bottles of water. If Kira probability that she will select a drink other than water?

A $\frac{3}{4}$
B $\frac{11}{19}$
C $\frac{8}{19}$
D $\frac{1}{4}$

49. The spinner shown above is fair. What is the probability that the spinner will NOT stop probability that the spinner w
on red if you spin it one time?

A $\frac{1}{4}$
B $\frac{1}{3}$
C $\frac{3}{4}$
D $\frac{4}{3}$
50. Fran has 16 CDs in a box: 6 country, 6 rock, 2 dance, and 2 classical. If she takes out one CD without looking, what is the probability that she will pick a rock or country CD?
A $25 \%$
B $50 \%$
C $75 \%$
D $100 \%$
51. These 8 cards are placed face down and shuffled


If Beatrice turns over only one card, what is the probability she will get a card with a number less than 4 ?

A $\frac{1}{4}$
B $\frac{3}{8}$
C $\frac{1}{2}$
D $\frac{5}{8}$
52. Mr. Gulati is holding five cards numbered 1 through 5. He has asked five students to each randomly pick a card to see who goes first in a game. Whoever picks the caf numbered 5 goes hist. Ju a picks first, gets the card numbered 4, and keeps the get the card numbered 5 if she picks second

A $\frac{1}{2}$
B $\frac{1}{3}$
C $\frac{1}{4}$
D $\frac{1}{5}$
53. A bag contained four green balls, three red balls, and two purple balls. Jason removed one purple ball from the bag and did NOT put the ball back in the bag. He then randomly removed another ball from the bag. What is the probability that the second ball Jason removed was purple?

A $\frac{1}{36}$
B $\frac{1}{9}$
C $\frac{1}{8}$
D $\frac{2}{9}$

California High School Exit Examination
54. Anna has the letter tiles below in a bag.

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She reached in the bag and pulled out an $S$. She then put the tile back in the bag. If Anna randomly selects a tile from the bag, what is the probability she will select an $S$ again?

A $\frac{1}{5}$
B $\frac{2}{9}$
C $\frac{3}{10}$
D $\frac{1}{3}$

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55. The circle graph shown above represents th distribution of the grades of 40 students in a certain geometry class. How many students received As or Bs?
A 6
B 10
C 15
D 20

California High School Exit Examination

56. Based on the bar graph shown above, which of the following conclusions is true?
A Everyone ran faster than 6 meters per second.
B The best possible rate for the 100 -meter dash is 5 meters per second.
C The first-place runner was four times as fast as the fourth-place runner.
D The second-place and third-place runners were closest in time to one another
57. The graph below represents the closing pric of a share of a certain stock for each day of week.


Which day had the greatest increase in the value of this stock over that of the previous day?
A Tuesday
B Wednesday
C Thursday
D Friday

California High School Exit Examination
58. The students at a high school were asked to name their favorite type of art. The table below shows the results of the survey.

| Art Survey |  |
| :---: | :---: |
| Type of Art | Number of Students |
| Painting | 714 |
| Drawing | 709 |
| Sculpture | 296 |
| Other | 305 |

Which circle graph BEST shows these data?
A

C

B

D

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California High School Exit Examination
59. The Venn diagram below shows the number of girls on the soccer and track teams at a high school.


How many girls are on both the soccer and track teams?
A 6
B 12
C 49
D 55

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California High School Exit Examination
62. The scatterplot below shows the time cheese has been aging and the amount of lactic acid present in the cheese.


Which statement is MOST strongly supported by the scatterplot?

A The longer cheese ages, the more lactic acid is present.
B The longer cheese ages, the less lactic acid is present.
C The amount of lactic acid present remains constant as cheese ages.
D No relationship exists between the time cheese ages and the amount of lactic acid present.
63. The scatterplot below shows the ages of some children and the distance each child lives from school.

Distance from School


Which statement BEST describes the relationship between age and distance from school?
A As age increases, the distance from school increases.
B As age increases, the distance from school decreases.
C As age increases, the distance from school remains constant.
D There is no relationship between age and distance from school.

