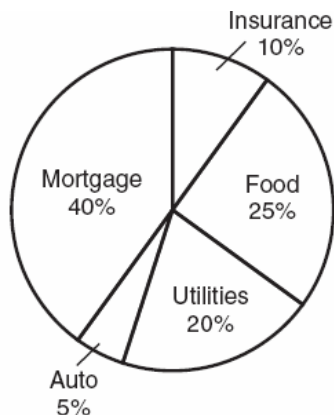


NAME: _____

1. 060422a

The accompanying circle graph shows how the Marino family spends its income each month.



What is the measure, in degrees, of the central angle that represents the percentage of income spent on food?

- [A] 90 [B] 360 [C] 25 [D] 50

2. 010611

The accompanying circle graph shows how Shannon earned \$600 during her summer vacation.



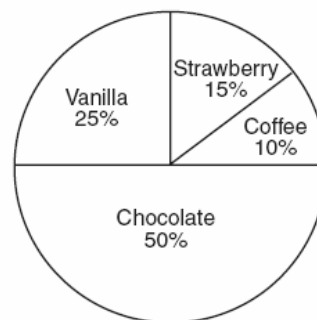
What is the measure of the central angle of the section labeled "Chores"?

- [A] 90° [B] 120° [C] 60° [D] 30°

3. 010325a

Mr. Smith's class voted on their favorite ice cream flavors, and the results are shown in the accompanying diagram. If there are 20 students in Mr. Smith's class, how many students chose coffee ice cream as their favorite flavor?

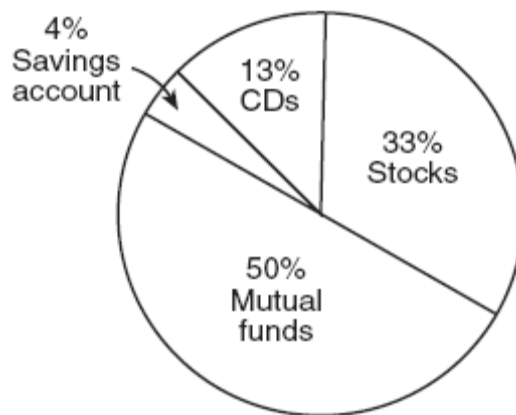
Favorite Ice Cream Flavors



4. 080702a

The accompanying circle graph shows how Joan invested her money.

Joan's Investments



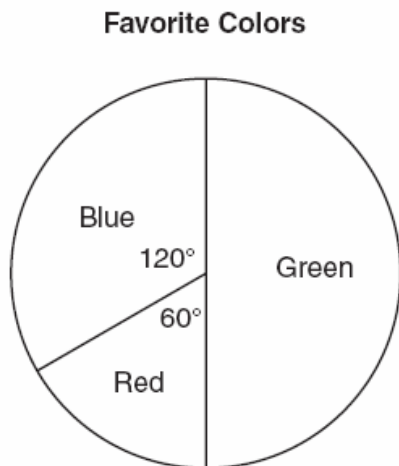
If she invested a total of \$12,000, how much money did she invest in CDs?

- [A] \$15,600 [B] \$1,560
 [C] \$92,308 [D] \$9,230

NAME: _____

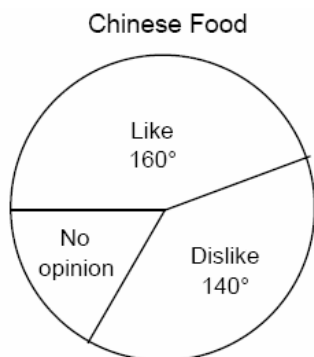
5. 080435a

The accompanying circle graph shows the Favorite colors of the 300 students in the ninth grade. How many students chose red as their favorite color?



6. 089924a

In a recent poll, 600 people were asked whether they liked Chinese food. A circle graph was constructed to show the results. The central angles for two of the three sectors are shown in the accompanying diagram. How many people had no opinion?



7. 080827a

In a survey, 450 high school students were asked for their preference of fast food for lunch. The accompanying circle graph represents the results.



How many students preferred salad?

- [A] 75 [B] 60 [C] 150 [D] 300

8. 080534a

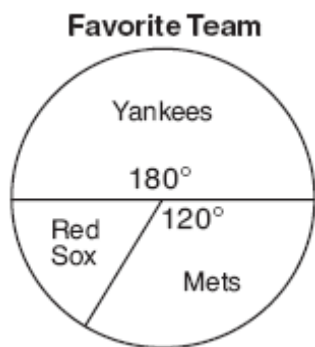
Nine hundred students were asked whether they thought their school should have a dress code. A circle graph was constructed to show the results. The central angles for two of the three sectors are shown in the accompanying diagram. What is the number of students who felt that the school should have no dress code?



NAME: _____

9. 060715a

In a recent poll in Syracuse, New York, 3,000 people were asked to pick their favorite baseball team. The accompanying circle graph shows the results of that poll.

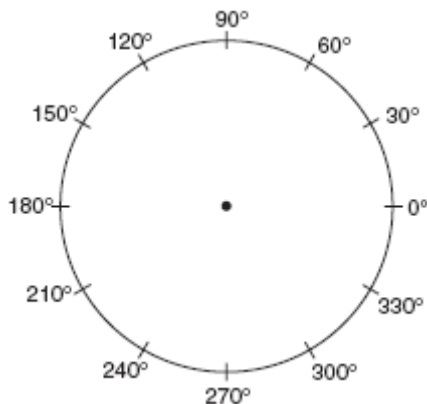


How many of the people polled picked the Red Sox as their favorite team?

- [A] 300 [B] 500 [C] 1,200 [D] 1,800

10. 060538a

In a class of 24 students, 10 have brown hair, 8 have black hair, 4 have blond hair, and 2 have red hair. On the accompanying diagram, construct a circle graph to show the students' hair color.



[1] A

[2] C

[2] 2, and appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown to find the number of students for any flavor other than coffee.

or [1] 2, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[3] incorrect procedure.

[4] B

[2] 50, and appropriate work is shown, such as using a proportion.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] An incorrect fractional part is determined, but an appropriate number of students is found.

or [1] 50, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[5] incorrect procedure.

[2] 100 and an appropriate method is shown, such as $360 - 300 = 60$ degrees, which is $\frac{1}{6}$

of the circle so $\frac{1}{6}$ of 600 is 100.

[1] 100 and no explanation is given.

or [1] An incorrect degree measure is used to develop a fraction by which to multiply 600, obtaining an appropriate answer.

or [1] A correct degree measure is used to develop $\frac{1}{6}$.

or [1] 60 degrees is used, but an incorrect number of people is found.

[0] Only 60 degrees is found.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[6] obviously incorrect procedure.

[7] A

[2] 600, and appropriate work is shown, such as $\frac{240}{360} \cdot 900 = 600$.

[1] Appropriate work is shown, but one computational error is made or the answer is expressed as a fraction.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] The central angle of 240° is found, but the number of students is not calculated.

or [1] An incorrect equation of equal difficulty is solved appropriately.

or [1] A correct equation is written, but no further correct work is shown.

or [1] 600, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[8] incorrect procedure.

[9] B

[4] A correct circle graph is drawn and labeled, and appropriate work is shown, such as using proportions. [A correct graph will show 150° for brown, 120° for black, 60° for blond, and 30° for red.]

[3] Appropriate work is shown, but one computational error is made, but an appropriate graph is drawn.

or [3] Appropriate work is shown, but one graphing error is made.

or [3] Appropriate work is shown and a correct graph is drawn, but the sectors are not labeled or are labeled incorrectly.

[2] Appropriate work is shown, but two or more computational errors are made, but an appropriate graph is drawn.

or [2] Appropriate work is shown, but one conceptual error is made.

or [2] Correct numbers of degrees or correct proportional values are found, but two or more graphing errors are made.

or [2] Correct numbers of degrees or correct proportional values are found, but no graph is drawn.

or [2] A correct circle graph is drawn and labeled, but no work is shown.

[1] Appropriate work is shown and a graph is drawn, but two or more computational errors and two or more graphing errors are made.

or [1] At least two numbers of degrees or proportional values are found correctly, but no graph or an incorrect graph is drawn.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[10] incorrect procedure.