

Name: \_\_\_\_\_

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## 2005, Mathematics - Grade 10

### Question 23: Multiple Choice

*Data Analysis, Statistics, and Probability*



A local university is divided into three colleges. The table below shows the number of students enrolled in each college.

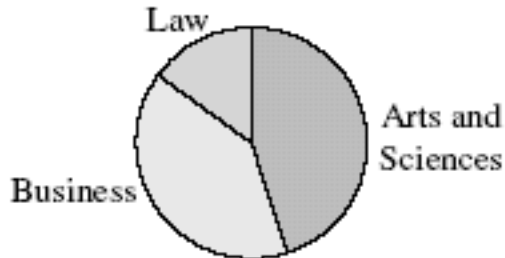
### University Enrollment

College	Number of Students
Arts and Sciences	8036
Business	2977
Law	1014

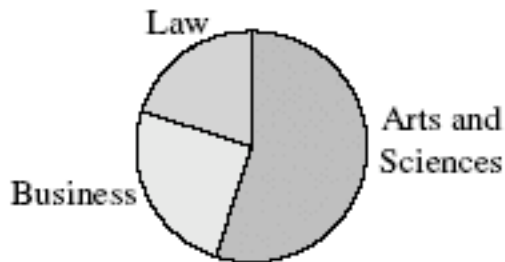
Name: \_\_\_\_\_

Which of the following circle graphs best represents the data in the table?

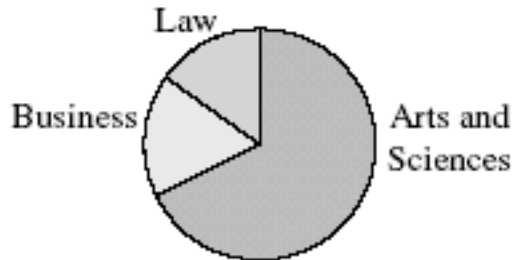
**A. University Enrollment**



**B. University Enrollment**



**C. University Enrollment**



**D. University Enrollment**



Name: \_\_\_\_\_

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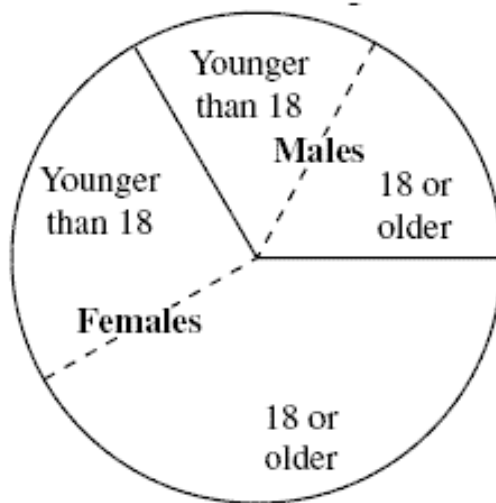
**2005, Mathematics - Grade 10**

**Question 18: Short Answer**

*Data Analysis, Statistics, and Probability*



The circle graph shown below represents the membership of a service organization. In this organization,  $\frac{2}{3}$  of the members are female.



Approximately what fractional part of the total membership consists of males who are 18 or older?

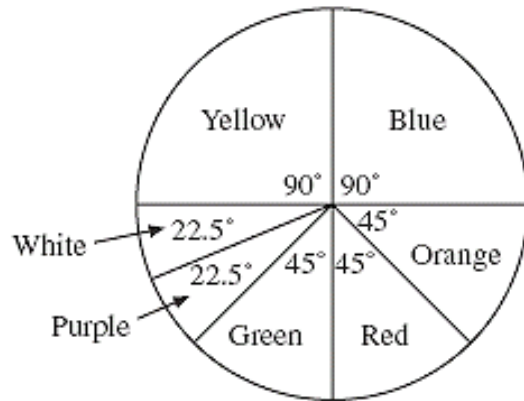
Name: \_\_\_\_\_

**2004, Mathematics - Grade 10**

**Question 29: Multiple Choice**

*Data Analysis, Statistics, and Probability*

The circle graph below shows the colors of 160 marbles.



What is the total number of green marbles?

- A. 8
- B. 20
- C. 40
- D. 45

Name: \_\_\_\_\_

**2003, Mathematics - Grade 10**

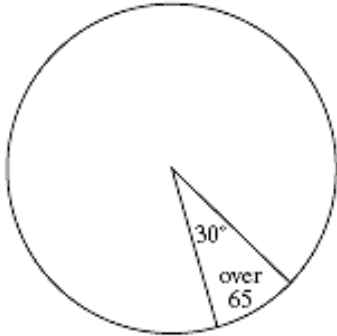
**Question 29: Multiple Choice**

*Data Analysis, Statistics, and Probability*

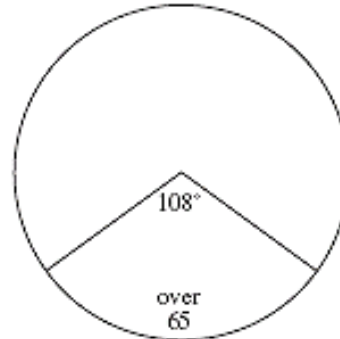


Amy drew a circle graph to represent the ages of people who were surveyed for a consumer group. Of those surveyed, 30% were over the age of 65. Which one of the following graphs best represents the survey results?

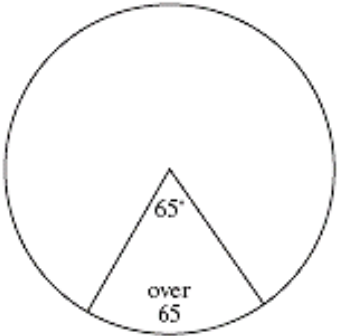
A.



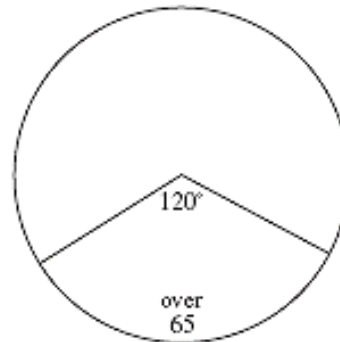
C.



B.



D.



Name: \_\_\_\_\_

**2002, Mathematics - Grade 10**

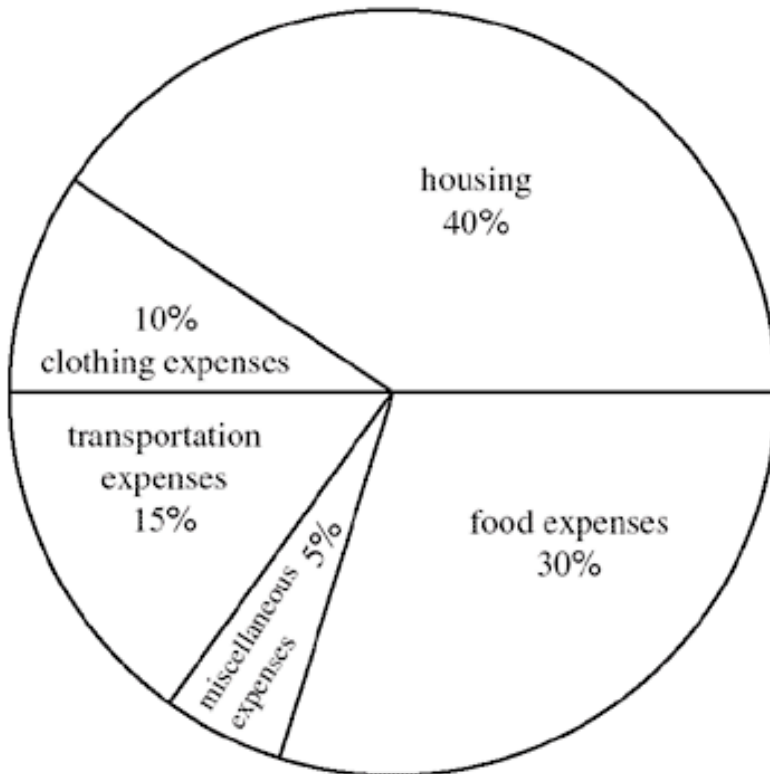
**Question 25: Multiple Choice**

*Data Analysis, Statistics, and Probability*



The circle graph below shows the Corbett family's monthly budget. The Corbett family has a total monthly income of \$2,000.

**Corbett Family's Monthly Budget**



Mr. Corbett received a \$100 per month raise. He increased the transportation expense portion of the monthly budget by \$100. To the nearest percent, what portion of the Corbetts' income is now being spent on transportation expenses?

- A. 14 percent
- B. 19 percent
- C. 20 percent
- D. 21 percent

Name: \_\_\_\_\_

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**2000, Mathematics - Grade 10**

**Question 33: Multiple Choice**

*Patterns, Relations, and Algebra*

According to the 1990 U.S. Census, 27.2% of Massachusetts residents over the age of 25 had graduated from a 4-year college. In a circle graph representing all Massachusetts residents over the age of 25, about how many degrees should be in the sector representing these 4-year college graduates?

- A.  $27^\circ$
- B.  $17^\circ$
- C.  $98^\circ$
- D.  $68^\circ$



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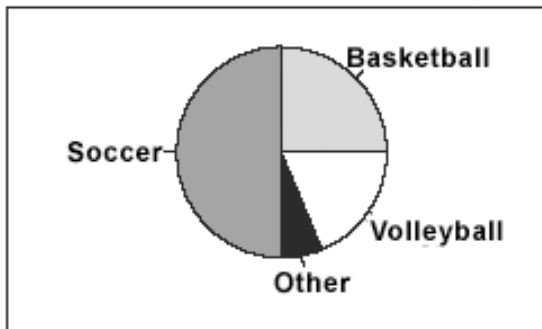
**2000, Mathematics - Grade 10**

**Question 28: Multiple Choice**

*Number Sense and Operations*

Use the graph that shows the results of a survey to answer question 28.

**Students' Choices for Gym**



Based on the graph, which is the best estimate of the percent of the students choosing volleyball?

- A. 10%
- B. 30%
- C. 20%
- D. 80%



Name: \_\_\_\_\_

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## 1999, Mathematics - Grade 10

### Question 1: Multiple Choice

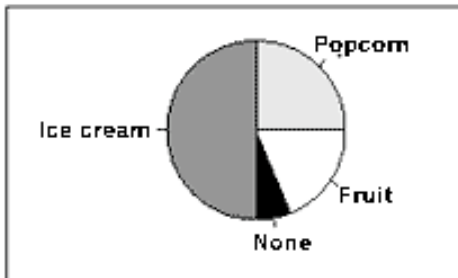
*Number Sense and Operations*

*Use the graph that shows the results of a survey to answer question 1.*



Consider a school of 2000 students. Based on the data in the graph, about how many of the 2000 students would you expect to choose fruit as their favorite snack?

**Favorite Snack**



- A. 750
- B. 400
- C. 150
- D. 100