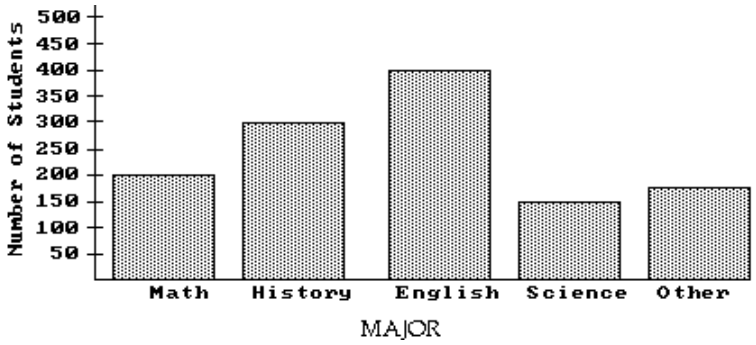
Worksheet **5.3**

Bar Graphs and Line Graphs.

The bar graph below shows the number of students by major in the College of Arts and Sciences. Use the graph to answer questions 1 through 3. See examples on page 289 in text.



1. How many more students are majoring in math than in science?

A) 150 B) 10 C) 100 D) 50

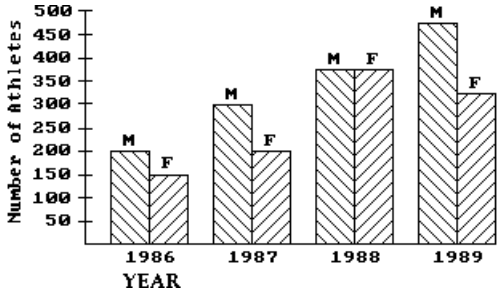
2. The science department spends about $500 on equipment for each student majoring in science. How much should the science department budget for equipment?

A) $7500 B) $75,000 C) $50,000 D) $100,000

3. The science department is planning to buy some new equipment. They want to make sure that there is one of the new machines for every 5 students majoring in science. If each machine costs $800, how much should they budget for the new equipment?

A) $32,000 B) $24,000 C) $28,000 D) $20,000

Refer to the double-bar graph below which shows the number of male (M) and female (F) athletes at a university over a four-year period. Solve problems 4 and 5. See examples on page 290 in text.



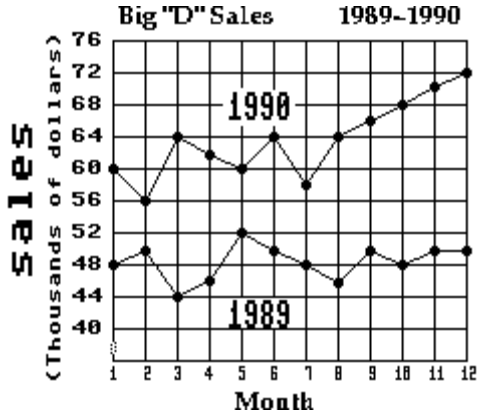
4. In which year was the number of male athletes equal to 375?

A) 1986 B) 1987 C) 1988 D) 1989

5. How many students were involved in athletics in 1989?

A) 475 B) 325 C) 800 D) 875

Use this graph to answer each questions 6 and 7. See examples on pages 292-293 in text.



6. What was the increase in sales between month 5 and month 6 of 1990?

A) $4 B) $800 C) $4000 D) $8000

7. What was the difference between the highest and lowest monthly sales in 1989?

A) $2000 B) $4000 C) $6000 D) $8000

Determine whether the number is divisible by 4. See examples on pages 67-70 in text.

8. 36,340

A) Yes B) No

Find the prime factorization of the number. See examples on pages 63-64 in text.

9. 72

A) $2 \cdot 2 \cdot 3 \cdot 3$ B) $2 \cdot 2 \cdot 2 \cdot 3$ C) $2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$ D) $2 \cdot 2 \cdot 2 \cdot 3 \cdot 5$

Find the least common multiple of the set of numbers. See examples on pages 74-75 in text.

10. 24, 18, 28

A) 168 B) 252 C) 504 D) 672