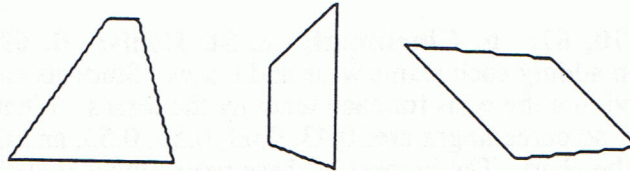


# Commentary

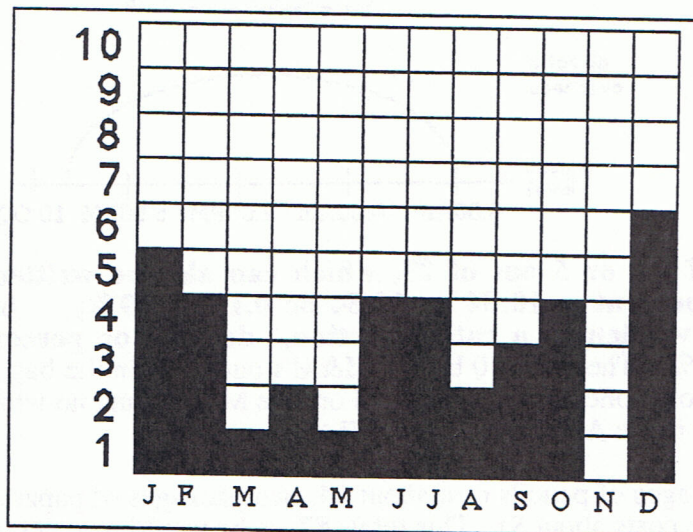
*Jupiter, XV*

1. (a. 32; b. \$160) There are 10 faces on the side showing, giving 20 altogether on the two sides. There are 8 faces that make up the "steps," and 4 more on the end. The estimate of the cost can be made by rounding \$4.99 to \$5, and multiplying  $32 \times \$5$ .
2. (Any picture of a trapezoid is acceptable.)



3. (3) One-half of a dozen is 6, and one-half of 6 is 3.
4. (800) Four out of five is the same ratio as eight out of ten, which is the same as 80 out of 100, which is the same as 800 out of 1000.
5. (24; its factors are: 1,2,3,4,6,8,12,24) Students will likely have to *guess-check-revise* to find the number with the most factors.
6. (See the graph below.) The title can be anything that makes good sense, such as "Class Birthdays." The labels on the bottom axis should represent the months of the year, probably with an initial.

TITLE: Class Birthdays



7. (35) Two hours is 120 minutes, and the 15-minute break means that 105 minutes are available for music.  $105 \div 3 = 35$ .
8. (9) The perimeter of the square is 36 miles. So the four sides add to 36, meaning that each side must be  $36 \div 4 = 9$  miles in length.