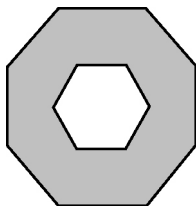


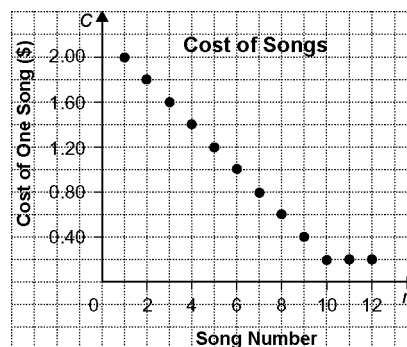
# Chapter 10 Gifted and Enrichment Answers

1. The numbers are arranged alphabetically: eight, five, four, nine, one, ...
2. **a)** 720. Start at 1, multiply the first number by 2, the second number by 3, the third number by 4, the fourth number by 5, and the fifth number by 6.
- b)** 21. Two previous numbers add up to the next number.
- c)** 31. Two previous numbers add up to the next number.
- d)** 17. Add 3 to each number to get the next number.
- e)** 12. Add 5 to the first number, subtract 3 from the second number, and repeat.
3. **a)** Answers may vary. Example: The number of sides of the outer shape is  $h + 2$ , where  $h$  is the number of sides of the inner shape.
- b)** The next outer shape in the series will have eight sides and the inner shape will have six sides.



4. a)

Song Number, $n$	Cost of One Song, $C$ (\$)
1	2.00
2	1.80
3	1.60
4	1.40
5	1.20
6	1.00
7	0.80
8	0.60
9	0.40
10	0.20
11	0.20
12	0.20



**b)**  $2.00 - 0.20(n - 1)$ , where  $n$  is the song number