

Problem Solving: Reasonableness

For **1** and **2**, use reasonableness to decide if each answer is correct. Explain why the answer is reasonable or not. If the answer is incorrect, give the correct answer.

- 1.** Johan is selling baseball cards for 12¢ each. He is selling 8 cards and says he'll make \$8.

- 2.** Erika wants to give 5 stickers to everyone in her class. Her class sits in 4 rows of 7, and Erika says she'll need 140 stickers.

- 3.** Viktor has 7 piles of coins with 63 coins in each. Which is a reasonable number of coins in Viktor's piles?

- A** 300, because 7×63 is about $7 \times 40 = 280$.
B 360, because 7×63 is about $7 \times 50 = 350$.
C 441, because 7×63 is about $7 \times 60 = 420$.
D 500, because 7×63 is about $7 \times 70 = 490$.

Julie planted a sunflower and kept track of its height in a table. Use the table to solve **4** and **5**.

- 4.** How tall will the sunflower be after the 5th week if it continues to grow at the same rate?

- 5. Writing to Explain** The world's largest sunflower was about 300 inches tall. Julie says her sunflower will be that tall after 3 months. Is Julie's answer reasonable? Explain why or why not. (Remember, there are about 4 weeks in one month.)

Height of Sunflower	
Week	Height in Inches
1	16
2	32
3	48
4	64
5	