## Daily Dilemma # 5: Answer Key

- 1. 22 4 = 18 shells for Katelyn
  - 6 = 18 so Devin has 3 shells
- 2. Let a = age of panda 2 (a + 7) = 22 So, a + 7 = 11 and a = 4
- 3.

•									
	Turns of	4	8	12	16	20	24	28	32
	handle								
	Depth of bucket	3	6	9	12	15	19	21	24

When the handle turns 4 times, the bucket drops 3 feet.

- 4. 4 cubes
  - 4 + 6 = 10 cones
  - 4(10) = 40 spheres

So there are 4 + 10 + 40 = 54 blocks

5.

Layers	Bricks
1	8
2	16
3	24
4	32
9	72
n	8 • n

Every time a layer is added, the total number of bricks increases by 8