## Daily Dilemma \# 5: Answer Key

1. $22-4=18$ shells for Katelyn

$$
\square \cdot 6=18 \text { so Devin has } 3 \text { shells }
$$

2. Let $a=$ age of panda

$$
2(a+7)=22
$$

So, $a+7=11$ and
$a=4$
3.

| Turns <br> of <br> handle | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Depth <br> of <br> 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 | $8 \bullet \mathrm{n}$ |

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

