

2.1. Counting

Developing Ideas

1. **Muchos mangos.** There are 5 layers with approximately 18 mangos each for a total of 90.
2. **Packing balls.** In the bottom of the box, line up as many balls as will fit from one corner to another corner along one edge. Because the box is a perfect cube, this gives the number of layers of balls that will fit when stacked vertically. Multiply this number by the number of balls that fit in a single layer to get your estimate.
3. **Alternative rock.** With five CD's, each one can have its own shelf. With one more CD, some shelf must have two according to the Pigeonhole principle.
4. **The Byrds.** The answer to both questions is "no." If each shelf had 3 (or fewer) CD's, then the total number of CD's would be (at most) 15.
5. **For the birds.** The Pigeonhole principle states that if you have more pigeons than you have pigeonholes, and every pigeon must be in some pigeonhole, then there must be at least one pigeonhole with more than one pigeon.

Solidifying Ideas

6. **Treasure chest.** The weight of the bills alone is enough to consider rejecting the offer. Let's *underestimate* the weight in the following way. A typical ream of laser-printer paper (500 sheets) definitely weighs more than 5 lb. So a single sheet of paper weighs at least $5/500 = 1/100$ pounds. Now we can almost fit 6 one dollar bills into the area contained by one 8.5"x11" piece of paper, so a single dollar bill weighs more than $1/600$ pounds. Therefore, a million bills weighs $1000000/600$ or roughly 1,666 pounds! Wait for a better offer.
7. **Order please.** States in the United States, honest congressmen (debatable), cars, telephones on the planet, people, grains of sand.
8. **Penny for your thoughts.** How many pieces would be placed on the last square of the checkerboard? The number of gold pieces doubles with each square and there are 64 total squares. The first square has $1 = 2^0$ pieces, the second square has $2 = 2^1$ pieces, the third square has $4 = 2^2$ pieces, and so on. So, the 64th square has 2^{63} , or more than 9×10^{18} gold pieces. Notice, too, that the number of pieces on each square is one more than the sum of all the gold pieces on the previous squares. So, in total, there are $2^{64} - 1$ pieces.
9. **Twenty-nine is fine.** Two possible candidates: First, 29 is prime. Secondly, 29 happens to be the sum of three consecutive squares, $29 = 4 + 9 + 16$. Lest the number 27 feel left out, it should be noted that $27 = 3 \times 3 \times 3$, a perfect cube. Is the set of prime numbers sparser than the set of perfect cubes? Does this make it less interesting in your eyes?
10. **Perfect numbers.** The next perfect number in line is $28 = 1 + 2 + 4 + 7 + 14$.
11. **Many fold.** To get started let's estimate the thickness of an ordinary piece of paper by noting that packages of 200 sheets of paper are more than half an inch thick. So, a single piece of paper is at least $1/400$ inches thick. Now, after one folding, the paper is twice the original thickness. After 2 foldings, the paper is $4 = 2^2$ times as thick. After 50 foldings, the paper will be 2^{50} times as thick. The resulting paper is then $2^{50}/400$ inches thick. (That's more than 2.8×10^{12} inches and more than 40 million miles!)

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