

Countdown Challenge

Counting on Frank, by Rod Clement: Multi-Step Problems

Let's say we enter a jelly bean counting contest. One method we could use to make an estimate or an educated guess is to visualize the jelly beans in the jar as stacked up in layers.

STEP 1: Use the top and bottom layers to figure out the average number of jelly beans per layer.

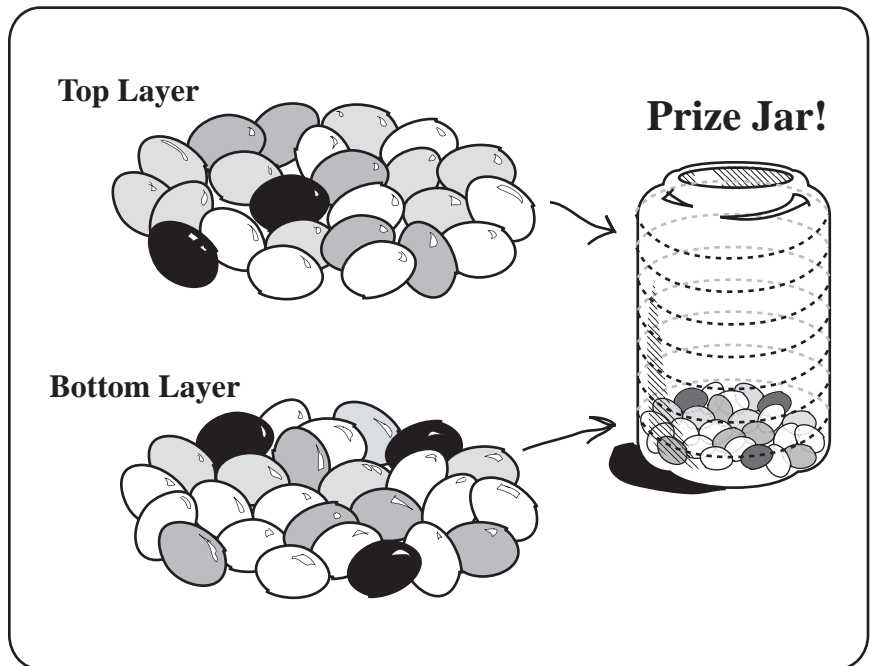
$$\frac{\text{Top Layer} + \text{Bottom Layer}}{2}$$

Average # per layer: _____

STEP 2: Estimate the number of layers in the jar. (Use the dotted lines).

of layers: _____

STEP 3: Multiply the average number of jelly beans per layer by the estimated number of layers.



How many jelly beans do you think are in the jar? _____ (It's just a guess, but it's a very good guess!)

Can you guess how many jelly beans are in THESE jars?

Using steps 1, 2 and 3 from above, complete the table below.

STEP 1			STEP 2	STEP 3	
Top layer	Bottom layer	Average number of jelly beans	Number of layers	Calculation	Your Best Guess
26	24	25	10	10 x 25	
24	26		15		
30	30		15		
34	30		20		
32	36		20		
30	31		30		