

This activity was written by Candace Walkington.

Deal or No Deal?

In the game show “Deal or No Deal,” different amounts of money are concealed in a number of closed briefcases. At the beginning of the game, the contestant chooses a case to keep for themselves that they are not allowed to open until the end of the game, and then has to open a set number of the other cases every round. When the contestant opens a case, he or she eliminates possibilities of what might be in the case initially chosen. The contestant must keep opening cases until they’re willing to accept an offer from the Banker to buy their case.

Using the data below from the video we just watched, try to figure out how the banker determines his offers in “Deal or No Deal” using any method you choose. Be ready to present your ideas to the class.

For a classwork grade, I would also like you to calculate mean, median, standard deviation, variance, range, and IQR for the “Remaining Amounts” from round 4. Also figure out if any of the amounts in round 4 were outliers, and draw a box and whisker plot of the round 4 data. Based on the statistics, not knowing what was going to happen, should he have accepted the \$40,000 offer? Why?

Round	Remaining Amounts		Offer
3	.01	400	14,000
	5	10,000	
	10	50,000	
	75	75,000	
	200	200,000	
	300	500,000	
4	.01	400	40,000
	5	10,000	
	75	50,000	
	200	500,000	
5	.01	400	9,000
	5	10,000	
	200	50,000	
6	5	10,000	11,000
	200	50,000	
	400		
7	5	400	2,500
	200	10,000	
8	5	400	200
	200		
9	5	200	100

http://www.youtube.com/watch?v=hmZFHjQfx-o&feature=Playlist&p=F60D5442D56D92E7&playnext_from=PL&index=0&playnext=1

