



WHEEL OF FORTUNE

Is *Wheel of Fortune* rigged?

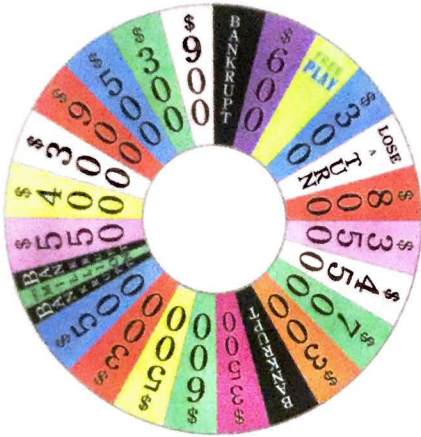
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Act One: Wheel...

- 1 In the game show *Wheel of Fortune*, contestants spin a wheel to determine how much money they'll win. To the nearest percent, how often do you expect the wheel to land on each of the following amounts?



Amount	\$300	\$350	\$400	\$450	\$500
Pieces					
Percent					
Amount	\$550	\$600	\$700	\$800	\$900
Pieces					
Percent					
Amount	\$3500	\$1 million	Free Play	Lose Turn	BANKRUPT
Pieces					
Percent					

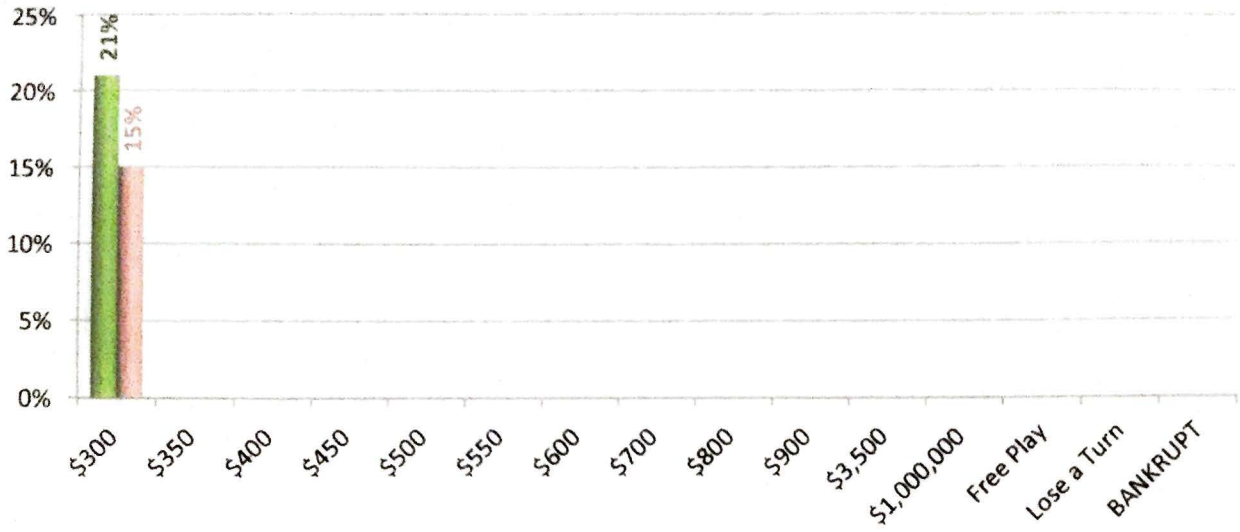
- 2 Pick one of the percents above and explain what it means within the context of *Wheel of Fortune*.
- 3 If you watched an episode of *Wheel of Fortune*, what would need to happen for you to be suspicious that the show was rigged? Explain.



Act Two: ...of Fortune?

- 4 Below, graph the theoretical probabilities from before: how often you *expect* the wheel to land on each amount. Then, watch an episode of *Wheel of Fortune*, and keep track how many times the wheel lands on each piece.

When the show ends, calculate the **experimental probabilities** – how often, as a percent, the wheel *actually* landed on each amount – and graph them below. (The results for \$300 have been done for you.)



\$300 ////	\$350	\$400	\$450
\$500	\$550	\$600	\$700
\$800	\$900	\$3,500	\$1 million
Free Play	Lose a Turn	Bankrupt	Total Spins 27

- 5 Based on your results, do you think that the game show *Wheel of Fortune* is rigged? Why or why not?