$A, B, 1$ 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?


$B_{1} C_{2}$ Pick one of the percents above and explain what it means within the context of Wheel of Fortune.
It is really difficult to get 1 mill. $\rightarrow$ only $1 \%$.
Most likely to get $\$_{300}$

BC 3 If you watched an episode of Wheel of Fortune, what would need to happen for you to be suspicious that the Acc show was rigged? Explain.

If a contestant gets bankrupt $50 \%$ of the time!

You get to spin 2 times!
A.B.C 4. What is the chance of getting a $\$ 300$ and then a $\$ 900$ ?

$$
\frac{5}{24} \times \frac{2}{24}=\frac{5}{288}=.02=2 \%
$$

## 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.)


$A B C 5$ Based on your results, do you think that the game show Wheel of Fortune is rigged? Why or why not?
Acc Bankrupt

$$
\frac{4}{27}=15 \% \quad \text { Not rigged. }
$$

