

# THE VIDEO

Take out a piece of paper and be ready to write down answers to these questions as you watch the video.

1. For the tossing-four-coins experiment,  $x$  was defined to be the number of heads. What are the possible values for  $x$ ?
2. Given the probability distribution for  $x$ , what is the sum of the probabilities?
3. Based on the probability histogram, what is the most likely number of heads to come up in a string of four coin tosses?
4. What was the most likely cause of the Challenger disaster?
5. What rule of probability was used to find  $p(0)$ , the probability that none of the six independent field joints failed?
6. What is the relationship between the probability that none of the field joints failed and the probability that at least one of the field joints failed?