

# THE VIDEO

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

1. What is a random phenomenon?
2. Explain why weather is an example of a random phenomenon.
3. What does it mean when a weather reporter says that there is a 70% chance of rain tomorrow?
4. If we flip a fair coin repeatedly, what can be said about the proportion of heads in the short run? What can be said about the proportion of heads in the long run?
5. What can you say about an event whose probability is close to one compared to an event whose probability is close to zero?

6. In 2029 the asteroid Apophis is predicted to pass close to Earth. According to current models predicting its path, what is the probability that it will collide with Earth?