How can humans and AI work together to detect deepfakes?

Imagine you are watching a video online of your favorite celebrity and they say something very **offensive**. You might be shocked, or maybe even angry. But you have a feeling that something is wrong with this video – and it turns out it's a deepfake. For a long time, video **evidence** has been the best way of indicating whether someone did or said something. Unfortunately, the rise of deepfakes means that is no longer the case. Deepfakes are videos that show people saying or doing things that didn't really happen. These videos are created by an artificial intelligence (AI) system based on deep learning – leading to the name deepfake. There have been a handful of deepfakes that have gone viral in the past few years. These include videos of well-known figures like Barack Obama, Donald Trump, and Mark Zuckerburg saying things they didn't say. But can we tell the difference between real and fake videos that we see online? Engineers have trained machine learning models to try to **identify** deepfakes on the internet. However, the best-known model can only **detect** deepfakes with around 65% accuracy. We wanted to know whether humans or the latest machine learning model were better at detecting a deepfake. We also wanted to see if human emotion plays a role in our ability to tell what's real and what's fake. We then used our results to suggest how best to detect deepfakes online!

1. What is the main idea of the article?

2. What is the author's purpose for writing this text?

3. In your own words, explain what this passage is about.

4. According to the passage, what are deepfakes?

5. How are deepfakes created?

6. According to the article, how accurate is the best-known model for detecting deep fakes?

7. Based on the passage, the word offensive means:
    a. Rude
    b. Polite
    c. True
    d. Peaceful

8. Based on the article, the word evidence means:
    a. Something fake
    b. Proof
    c. Ideas
    d. Creation

9. Based on the article, the word identify means:
    a. Miss
    b. Question
    c. Answer
    d. Notice

10. Based on the article, the word detect means
    a. Forget
    b. Remember
    c. Find
    d. Lose