

Fact vs. Inference - Understanding Parts of an AI System Answer Key

Sample Facts (explicitly stated in the passage)

1. When you type a sentence in English into an online translation system, the system captures it as input data.
2. The processing stage involves a neural network model trained on pairs of sentences in different languages.
3. The system produces an output in the form of a translated sentence.
4. The system uses feedback from users (such as corrections, usage data, or ratings) to improve over time.

Sample Inferences (logical but not directly stated)

1. If the training data had mistakes, the translation system could also produce incorrect translations.
2. The AI cannot truly “understand” meaning like a human brain does, so it may sometimes choose awkward wording.
3. The system is designed to continuously update and improve rather than staying the same forever.

Reflection Question Sample

1. Why is it important to know the difference between facts and inferences when reading about AI?

Because facts tell us what the system actually does, while inferences help us think critically and avoid assuming things that aren't supported by evidence.