

Name \_\_\_\_\_

## Scenario Elimination - Choosing the Best Model

**Instructions** - Each scenario below describes a real-world situation where someone wants to use AI. For each one, three possible model choices are listed. **One is the best fit, while the other two are less fitting.** Eliminate the two wrong choices by crossing them out, then explain why the best model works for that scenario.

**1) A Small Bakery** - The owner wants a chatbot that can answer simple questions about store hours and today's menu. The owner has a small budget and no access to powerful computers.

- Choice A: Big Model running on expensive servers
- Choice B: Small Model running on a laptop
- Choice C: Big Model trained on scientific research papers



**Best choice:** \_\_\_\_\_ **Why?** \_\_\_\_\_

**2) International Business** - A company needs AI to translate documents into multiple languages with very high accuracy because they have offices in ten countries.

- Choice A: Small Model designed for local devices
- Choice B: Big Model trained on large, multilingual data
- Choice C: Small Model with limited reasoning abilities



**Best choice:** \_\_\_\_\_ **Why?** \_\_\_\_\_

**3) Rural School** - A school wants to provide students with an AI tutor for basic writing practice. The internet connection is very weak, and they must use school laptops.

- Choice A: Big Model requiring constant internet access
- Choice B: Small Model that runs offline on laptops
- Choice C: Big Model built for complex scientific tasks



**Best choice:** \_\_\_\_\_ **Why?** \_\_\_\_\_

**4) A Science Lab** - Researchers are analyzing complicated biology reports and need detailed explanations that require advanced reasoning.

- Choice A: Small Model for fast summaries
- Choice B: Big Model with advanced reasoning
- Choice C: Small Model that runs on phones



**Best choice:** \_\_\_\_\_ **Why?** \_\_\_\_\_