Al Budget Scenarios

Instructions: Each company has \$100 to spend on AI. Small models cost \$2 per use. Big models cost \$10 per use. Solve each problem and decide if they should use Small Models, Big Models, or both.

Problem 1: Customer Chatbot - A bakery expects **40 customer questions** this week. Each question costs \$2 with a small model or \$10 with a big model. Can the bakery afford either option with \$100?



Problem 2: Document Summaries - An office needs **25 summaries** of short reports. Each summary costs \$2 with a small model or \$10 with a big model. Which option fits within the budget?

Problem 3: Technical Translations - A company needs **12 translations** into multiple languages. Each translation costs \$2 with a small model or \$10 with a big model. Can they afford big models only?

Problem 4: Tutoring Sessions - A school wants **30 tutoring sessions** for students. Which model should they pick if they want to stay under \$100?

Problem 5: Research Lab - A lab must analyze **15 complex reports**. Each analysis costs \$2 with a small model or \$10 with a big model. Which option works better within the budget?

Problem 6: Marketing Help - A small business wants **50 ad slogans** created. Can they afford small models, big models, or both with \$100?

Problem 7: Mixed Tasks - A company wants to do **20 simple customer questions** and **5 complex scientific explanations**. Could they afford this mix with \$100?

Problem 8: Balanced Use - A startup wants to split its \$100 evenly between small and big models. How many uses could they buy of each?

