

## Worksheet 1

Due: Tuesday, January 20

1. Put full names of group members at the top in alphabetical order by first name. Person listed *last* records the answers on this sheet. Star their name.
2. In one sentence, what is your opinion of AI? Each person in the group should contribute their own sentence. Make sure to label each sentence with the name of the person expressing it.

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3. A jar contains a bacterial population which doubles in size every minute. At noon, there is exactly one bacterium in the jar. At 1pm, the jar is full. At what time is the jar half full?
4. Sixty four teams are participating in a single-elimination tournament with a single winner. How many total games will there be? Explain your answer.
5. 2025 teams are participating in a single-elimination tournament with a single winner. In each round, if there are an odd number of teams, one team sits out. How many total games are there? Explain your answer