

Name _____

These questions concern the Island of **Knights and Knaves**. Each person who lives on this island is either a Knight or a Knave. Every statement made by a Knight is true, while every statement made by a Knave is false.

Which type made each of the following statements, a Knight or a Knave? Explain the reasons for your answers.

1. $1 + 1 = 2$.
2. $2 \cdot 2 = 5$.
3. I am a Knight.
4. I am a Knave.
5. My brother and I are both Knaves. (Which type is the speaker, which type is the speaker's brother?)
6. I am a knave but my sister is not. (Which type is the speaker, which type is the speaker's sister?)
7. Of my sister and I, at least one of us is a Knave. (Which type is the speaker, which type is the speaker's sister?)
8. I am a Knave or there is gold on the island. (Which type is the speaker, and is there gold on the island?)
9. In this example, there are two people on the island: A and B.
A says: "I am a knave, but B isn't." (What are A and B?)