

1. Adventurer Silas Seeker was shipwrecked on an island with two different tribes of trolls. One tribe always tells the truth (which he named the TRUTHFULS) and the other tribe always lies (which he named the LIARS). Upon meeting three trolls, Silas asked to which tribe does each of the trolls belong. The first troll's answer was unintelligible and the second troll immediately said, "He said, 'I am a TRUTHFUL.' " Then he added, "I am a TRUTHFUL too." The third troll spoke up and said, "They are both lying."

To which tribe does each troll belong? Explain your reasoning.

2. Adventurer Silas Seeker was shipwrecked on a island with two different tribes of trolls. One tribe always tells the truth (which he named the TRUTHFULS) and the other tribe always lies (which he named the LIARS). Silas met four trolls: Amin, Bamba, Conti and Devi. Their statements are:

Amin: Bamba is a LIAR.

Bamba: Both Amin and Conti are in the LIARS tribe.

Conti: Devi is a LIAR.

Devi: Only Bamba is a TRUTHFUL.

To which tribe does each troll belong? Explain your reasoning.

3. Silas built a raft and sailed to a neighboring island. On this island there were three tribes of trolls. One that always tells the truth (called the TRUTHFULS), one that always lies (called the LIARS), and the third which always alternated between telling the truth and telling a lie. In other words, if the first statement is a lie then the next statement must be the truth or vice versa (they are called ALTERNATORS). Each year, the leaders of the three clans participate in an athletic competition to determine which of the three should govern the island for the New Year. After this year's competition, the competitors made the following statements:

Ange: I came in second; Benge came in last.

Benge: Ange came in last; Conge won.

Conge: I came in last; Ange won.

What was the order of finish in the competition? Explain your reasoning.