

Reviewing Pure Substances and Mixtures Pre-Assessment

1. Determine whether the substances listed in the table below are pure substances (P) or mixtures (M). Two examples are provided.

<u> P </u> gold (Au)	<u> M </u> Kool-Aid	_____ bronze
_____ water (H ₂ O)	_____ copper (Cu)	_____ pyrite (FeS ₂)
_____ brass	_____ titanium (Ti)	_____ 6al-4v

2. Read the description below. Predict whether the described substance is a pure substance or a mixture. Write your prediction and explanation in the space provided.

A substance composed of approximately 6% aluminum, 4% vanadium and 80% titanium is used as a turbine within a jet engine because of its ability to sustain extreme heat and to resist corrosion.

Prediction: _____

Explanation:

3. Copper is frequently mixed with other elements. What do you believe is the advantage of using a copper mixture rather than using pure copper?