Classifying Matter Practice Worksheet

Classify each of the materials below. In the center column, state whether the material is a <u>pure substance</u> or a <u>mixture</u>. If the material is a pure substance, further classify it as either an <u>element or compound</u> in the right column. Similarly, if the material is a mixture, further classify it as <u>homogeneous</u> or <u>heterogeneous</u> in the right column.

Material	Pure Substance or Mixture	Element, Compound, Homogeneous, Heterogeneous
sugar + pure water (C ₁₂ H ₂₂ O ₁₁ + H ₂ O)		
iron filings (Fe)		
limestone (CaCO ₃)		
orange juice (w/pulp)		
magnesium (Mg)		
acetylene (C ₂ H ₂)		
soil		
chromium (Cr)		
Chex mix		
salt + pure water (NaCl + H ₂ O)		
benzene (C ₆ H ₆)		
muddy water		
brass (Cu mixed with Zn)		
baking soda (NaHCO₃)		

Material	Pure Substance or Mixture	Element, Compound, Homogeneous, Heterogeneous
sugar + pure water (C ₁₂ H ₂₂ O ₁₁ + H ₂ O)	Mix	homo
iron filings (Fe)	oure	element
limestone (CaCO ₃)	bure	purpose comp.
orange juice (w/pulp)	mix	hetero.
magnesium (Mg)	oure	etement.
acetylene (C ₂ H ₂)	'oure	compound
soil	mix	hetero.
chromium (Cr)	oure	element
Chex mix	mix	hetero
salt + pure water (NaCl + H ₂ O)	Mix	homo
benzene (C ₆ H ₆)	owe	compound
muddy water	mix	hetero
brass (Cu mixed with Zn)	mix	homo-alloy
baking soda (NaHCO ₃)	pure	compound