

7Eb solutions

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Q1: insoluble, soluble, solvent, solute

Q2: a- mass of solution = mass of dissolved substance + mass of the liquid at the start

$$= 20 + 150 = 170\text{g}$$

b- No substances have been created or destroyed so mass is conserved.

Q3: Concentration is the mass of substance dissolved in a particular volume of solvent.

Q4: a- $32 \times 5 = 160\text{g}$

b- This is the mass that would form a saturated solution.

c- Heating the water above 20°C would increase the solubility of the copper sulfate.