

## 7Eb solutions

### Workbook answers page 55

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- 32g  $\rightarrow$  100g

$$?? \rightarrow 500\text{g}$$

$32 \times 5 = 160\text{g}$  of Copper sulfate dissolves in 500g of water at  $20^\circ\text{C}$

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

c- Heating the water above  $20^\circ\text{C}$  would increase the solubility of the copper sulfate.