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Name _____ Date _____ Class _____

CONCEPT REVIEW
SOLUTIONS

Solutes and Solvents

1. A solution is a homogeneous mixture of two or more substances. The relative abundance of the substances in a solution determines which is the solute and which is the solvent. For each of the following solutions, identify which substance is the solute and which is the solvent.

a. 20 g NaCl and 100 g H₂O c. 100 g H₂ and 50 g O₂

solute _____ solvent _____
solute _____ solvent _____

b. 50 g benzene and 1.0 g aspirin d. 25 g CH₃COOH and 100 g H₂O

solute _____ solvent _____
solute _____ solvent _____

2. Solvents may be classified as polar or nonpolar. The same is true for solutes. Thus, there are four possible solution situations.

a. Write the four possible combinations in which solutes and solvents may be paired.

b. Several solute-solvent combinations are listed in Table 1. Classify each combination as one of the four you named in item a and tell whether or not solution is likely. Use Table 20.2 in your text for reference.

Table 1

Mixture	Combination type	Solution likely
table salt in benzene		
benzene in cyclohexane		
table salt in water		
oil in water		
water in methanol		
iodine in carbon tetrachloride		

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