

## REVIEW

## 6

## SECTION 6.4

**Acids and Bases in the Home**

1. **Classify** the following household products as either acids or bases:

_____ a. soaps	_____ e. clothing dyes
_____ b. bleach	_____ f. antacid
_____ c. vitamin C	_____ g. vinegar
_____ d. baking soda	_____ h. lye

2. **Describe** the role of soap as an emulsifier when washing oil or grease from your hands.

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3. **Explain** why a substance containing only long hydrocarbon chains would not be a good emulsifier for mixtures of water and oil.

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4. Hydrogen peroxide,  $\text{H}_2\text{O}_2$ , is a common bleaching agent and disinfectant readily available at the local drugstore as a 3 percent solution.

a. **Describe** what a disinfectant does.

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b. **Calculate** how many grams of hydrogen peroxide must be added to 194 g of water to make a 3.0 percent solution.

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c. **Describe** what a bleaching agent does.

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5. **Explain** methanol's ability to act like an emulsifier in removing water from fuel. (**Hint:** Methanol has both a polar and a nonpolar end.)

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