

NAME: \_\_\_\_\_

Date: \_\_\_\_\_

## Worksheet 11C Neutralization Reactions (Nelson p.225-229)

Refer to the textbook page 225 to 228 to answer the questions below.

- 1) Explain what happens during a **chemical reaction** that involves **an acid** and **a base**.

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- 2) The chemical reactions the firefighters used to clean up a hazardous spill of a base:



a) What **type of reaction** is this? \_\_\_\_\_

b) Write the **general equation** for this kind of reaction. **Compare the equation** above with this general equation.

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c) Name the **reactants**. \_\_\_\_\_

d) Name the **products**. \_\_\_\_\_

e) How do you think the pH of the products compared to the pH of the initial spill?

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- 3) Why is it important to **neutralize an acid spill** before attempting to clean it up?

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- 4) Why is it necessary to **regularly test the pH of pool water**?

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- 5) Consider these compounds: **HCl, KOH, NaCl, H<sub>3</sub>PO<sub>4</sub>**.

a) Which could be used to **raise the pH** of pool water? Explain.

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b) Which could be used to **lower the pH** of pool water? Explain.

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