**Lesson 1 Problem-Solving Practice**

***Estimate Products of Fractions***

**Estimate by using rounding or compatible numbers. Show how you found your estimates.**

**RECIPES For Exercises 1–3, use the table at the right and the information below.**

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| **German Chocolate Cake** |
| $\frac{3}{4}$ c boilingwater | 4 egg whites,stiffly beaten |
| 1$\frac{3}{4}$ c butter | 2 c sugar |
| 4 egg yolks | 1 tsp vanilla |
| 4 oz chocolate | 2$\frac{3}{4}$ c flour |

The table gives some of the ingredients that are needed to make a German chocolate cake.

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| **1.** Rubin needs to make three German chocolate cakes for a fundraiser. About how many cups of flour will he need? | **2.** Jordana wants to make six German chocolate cakes for a bake sale at her school. About how many cups of boiling water will she need? |
| **3.** Dexter needs to make five German chocolate cakes for a surprise party at a recreation center. About how many cups of butter will he need? | **4. WATER** Marcia is making a habit of drinking at least 7 cups of water a day. About how many cups of water did she drink if she drank $\frac{3}{4}$ the number of cups she wanted to drink? |
| **5. TRAVEL** Seth has been driving for 4$\frac{3}{4}$ hours at 62 miles per hour. About how many miles has he driven? | **6. MAIL** The U.S. Postal Service delivers about 212 billion pieces of mail each year. Of this mail, $\frac{4}{5}$ is sent by big commercial users. About how many pieces of mail are sent by big commercial users each year? |