

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.

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

German Chocolate Cake	
$\frac{3}{4}$ c boiling water	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

<p>1. Rubin needs to make three German chocolate cakes for a fundraiser. About how many cups of flour will he need?</p>	<p>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?</p>
<p>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?</p>	<p>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?</p>
<p>5. TRAVEL Seth has been driving for $4\frac{3}{4}$ hours at 62 miles per hour. About how many miles has he driven?</p>	<p>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?</p>

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