STUDENT MATERIALS

PART 1: REALLY RATIONAL PROBLEMS

1. Nesara needs to make 6 batches of peanut butter cookies for her school's bake sale to raise money for field trips. The recipe she has for one batch of cookies requires $1\frac{1}{2}$ cups of all-purpose flour. How many cups of flour will she need to make all 6 batches?

$$1\frac{1}{2} + 1\frac{1}{2} + 1\frac{1}{2} + 1\frac{1}{2} + 1\frac{1}{2} + 1\frac{1}{2} = 9.$$

She will need 9 cups of flour to make 6 batches of cookies

2. Nesara paid $3.99 for the bag of flour. The bag has 18 cups of flour. To the nearest cent, how much is she paying for the flour that she used in her 6 batches of cookies?

She's paying 2 dollars for the flour, as $9 \div 18 = 2$.

3. Maya is helping Nesara make the cookies and volunteered to bring the brown sugar. The recipe calls for $\frac{1}{2}$ cup per batch. The bag of brown sugar has 4 cups and costs $2.49. To the nearest cent, how much did she pay for the brown sugar they used for the 6 batches of cookies?

She payed 1.875$.

$$\frac{1}{2} \times 6 = 3.$$

$$3 \div 4 = 0.75$$

$$0.75 \times 2.49 = \quad 1.875$$

rounded to 2.50

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PART 2: BEYOND REALLY RATIONAL PROBLEMS

4. Alia wants to make another 6 batches using the same recipe that Nesara used. Nesara tells Alia that they had $10 to spend in total. She already paid $3.99 for the bag of flour and Maya paid $2.49 for the brown sugar. Alia needs to purchase flour and brown sugar but has the rest of the ingredients already at home. Since they have already spent part of the $10, which items do you think she should purchase with the remaining money she has left over? Justify your thinking.

Peanut Butter *(recipe uses 1 cup per batch)*	$2.29 per jar *(≈3.25 cups)*
Baking Powder *(recipe uses 0.75 tsp per batch)*	$2.69 per can *(≈47 tsps.)*
Vanilla Extract *(recipe uses 1 tsp per batch)*	$1.99 per bottle *(≈12 tsps.)*

(handwritten) 2.29 × 2 = 4.58   4 + 2.49 = 6.49

(handwritten) I peanut butter because it's crucial in the recipe.

(handwritten) 2.29 + 3.49 = 6.28   6.28 + 2.49 = 8.77

(handwritten) I can't buy anything more because I don't have enough money left.