

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?

$$1\frac{1}{2} \times 6 = 9$$

9 cups

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?

$$(9 \div 18) \div 3.99 = \$1.99$$

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?

$$2.49 \times \frac{1}{2} = 1.245$$

$$1.245 \times 6 = 7.47$$

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 (<i>recipe uses 1 cup per batch</i>)	\$2.29 per jar (≈ 3.25 cups)
Baking Powder (<i>recipe uses 0.75 tsp per batch</i>)	\$2.69 per can (≈ 47 tsps.)
Vanilla Extract (<i>recipe uses 1 tsp per batch</i>)	\$1.99 per bottle (≈ 12 tsps.)

vanilla extract

$$\begin{array}{r}
 3.99 \\
 + 2.49 \\
 \hline
 \$6.48 \\
 + 1.99 \\
 \hline
 \$8.47
 \end{array}$$