

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?

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

$$3 \times 3 = 9$$

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

$$\begin{array}{r} 1\frac{1}{2} \\ 1\frac{1}{2} \\ \hline 3 \end{array}$$

9 cups of flour

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?

$$\$1.99$$

$$\frac{9}{18} = \frac{1}{2}$$

$$4.00 \times \frac{1}{2} = 1.99 \text{ or } 2.00$$

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~~

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

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

$$\$1.87$$

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.)

4.00
2.50
6.50

Baking powder of vanilla Extract because they are both in the budget and they both have enough to make all 6 batches.