

MY Homework

Lesson 8

Problem Solving: Use Logical Reasoning

Homework Helper



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Hailey made raisin bread. She used flour, raisins, and water. The amounts of these ingredients were $\frac{1}{3}$ cup, $\frac{1}{4}$ cup, and $\frac{2}{3}$ cup. She used more flour than water. She used more water than raisins. How much of each ingredient did Hailey use?

1 Understand

What facts do you know?

Hailey used flour, raisins, and water to make bread. The amounts of the ingredients were $\frac{1}{3}$ cup, $\frac{1}{4}$ cup, and $\frac{2}{3}$ cup.

What do you need to find?

I need to find how much of each ingredient Hailey used.

2 Plan

I will use logical reasoning to solve the problem.

3 Solve

The order of the ingredients from greatest to least amounts is flour, water, and raisins. The order of the amounts from greatest to least is $\frac{2}{3}$ cup, $\frac{1}{3}$ cup, and $\frac{1}{4}$ cup.

So, Hailey used $\frac{2}{3}$ cup of flour, $\frac{1}{3}$ cup of water, and $\frac{1}{4}$ cup of raisins.

4 Check


Does the answer make sense?

Yes. The clues match the answer.



Problem Solving

Solve each problem by using logical reasoning.

- 1. PRACTICE**  **Stop and Reflect** Ryan has his artwork displayed at the library, the mall, and the bank. Use the clues to find the fraction of his art that is displayed at each place.

- $\frac{1}{4}$ of the art is at one location, $\frac{1}{8}$ of the art is at the second location, and $\frac{5}{8}$ of the art is at the third location.
- There is more of Ryan's art at the library than the mall.
- There is less of Ryan's art at the bank than at the mall.

- 2.** Benjamin made a fruit salad with strawberries, blueberries, and kiwi. Use the clues to find the amounts of each ingredient.
- The amounts were $\frac{3}{4}$ cup, $\frac{2}{8}$ cup, and $\frac{1}{2}$ cup.
 - Benjamin used more blueberries than strawberries.
 - Benjamin used more strawberries than kiwi.

- 3.** Layla wrote a report about insects. She listed the lengths of tiger beetles, carpenter ants, and aphids. The lengths were $\frac{1}{2}$ inch, $\frac{5}{8}$ inch, and $\frac{1}{8}$ inch. A tiger beetle is bigger than a carpenter ant. A carpenter ant is bigger than an aphid. List the sizes of each insect.

My Work!