

Name: Class:

Add 3 or more fractions with unlike denominators word problems

- a. Cheryl works in a pie shop. Last Monday, after closing hours, Cheryl counted the number of pies she had left in the shop. She had $\frac{1}{2}$ of apple pie, $\frac{4}{10}$ of cherry pie, $\frac{1}{5}$ of pumpkin pie and $\frac{3}{20}$ of sugar cream pie. What fraction of pies was left?
- b. Peter invited 4 of his friends over for dinner. After the dinner, he decided to share a bottle of champagne with them. He drank $\frac{1}{3}$ of a glass of champagne, his friend, Paul drank $\frac{2}{3}$, Larry drank $\frac{3}{4}$, John drank $\frac{1}{4}$ and Smith drank $\frac{1}{2}$. How much champagne did they drink in all?



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- a. Cheryl works in a pie shop. Last Monday, after closing hours, Cheryl counted the number of pies she had left in the shop. She had $\frac{1}{2}$ of apple pie, $\frac{4}{10}$ of cherry pie, $\frac{1}{5}$ of pumpkin pie and $\frac{3}{20}$ of sugar cream pie. What fraction of pies was left?

$$\text{Amount of apple pie left} = \frac{1}{2}$$

$$\text{Amount of cherry pie left} = \frac{4}{10}$$

$$\text{Amount of pumpkin pie left} = \frac{1}{5}$$

$$\text{Amount of sugar cream pie left} = \frac{3}{20}$$

$$\text{So, total fraction of pies left} = \frac{1}{2} + \frac{4}{10} + \frac{1}{5} + \frac{3}{20}$$

$$= \frac{10 + 8 + 4 + 3}{20} = \frac{25}{20} = 1\frac{1}{4}$$

Therefore, $1\frac{1}{4}$ fraction of pies was left.

- b. Peter invited 4 of his friends over for dinner. After the dinner, he decided to share a bottle of champagne with them. He drank $\frac{1}{3}$ of a glass of champagne, his friend, Paul drank $\frac{2}{3}$, Larry drank $\frac{3}{4}$, John drank $\frac{1}{4}$ and Smith drank $\frac{1}{2}$. How much champagne did they drink in all?

$$\text{Amount of champagne Peter drank} = \frac{1}{3} \text{ of a glass.}$$

$$\text{Amount of champagne Paul drank} = \frac{2}{3} \text{ of a glass.}$$

$$\text{Amount of champagne Larry drank} = \frac{3}{4} \text{ of a glass.}$$

$$\text{Amount of champagne John drank} = \frac{1}{4} \text{ of a glass.}$$

$$\text{Amount of champagne Smith drank} = \frac{1}{2} \text{ of a glass.}$$

$$\text{Therefore, Amount of champagne they drank in all} = \frac{1}{3} + \frac{2}{3} + \frac{3}{4} + \frac{1}{4} + \frac{1}{2}$$

$$= \frac{4 + 8 + 9 + 3 + 6}{12} = \frac{30}{12} = 2\frac{1}{2}$$

So, they all drank $2\frac{1}{2}$ glasses of champagne.

