

Name: Class:

Add and subtract fractions with same denominators - word problems

1. Mrs. Lucy is a grade one teacher. Last Monday, she had $\frac{7}{8}$ boxes of pencils to share to her pupils but $\frac{3}{8}$ boxes of the pencils were broken. After she threw out broken pencils, what quantity of pencils were lefts ?
(write your answer as fraction in its lowest terms).
2. Naomie works in a very good company. When she comes to work on Saturday, she spent $\frac{17}{12}$ hours in dusting and mopping the office. After that, she spent $\frac{48}{12}$ hours in working and $\frac{13}{12}$ hours for break. How much time does Naomie spend at work this day ? (write your answer as a mixed number).
3. Ruth wants to bake some cookies for her family. She has a bag of farine in the storage room that contained $\frac{17}{20}$ kilograms of flour. She took $\frac{3}{20}$ of a kilogram of flour to bake the cookies and she filled up an empty bowl with $\frac{7}{20}$ kilogram of flour to use later. How much flour was left in the bag of farine ?
4. Yesterday, Owen filled a bag with wheat grain and the weight was $\frac{9}{10}$ of a kilogram excluding the weight of the bag. On weighing the bag he realized that the bag only weighs $\frac{4}{10}$ of a kilogram including the weight of the bag. He was so surprised but then realized that the bag got damaged during transportation. If the weight of the bag alone is $\frac{1}{10}$ of a kilogram, what fraction of the wheat grain poured out from the bag?
5. Last week, Mr. White filled a keg of wine with $\frac{2}{3}$ of a gallon of wine. Today, during wine testing, he discovered that only $\frac{1}{3}$ of a gallon of wine was left in the keg. What fraction of the wine had leaked out of the keg?

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1. ▶ total fraction of boxes of pencils: $\frac{7}{8}$
 ▶ fraction of boxes of pencils broken: $\frac{3}{8}$

Therefore, $1\frac{1}{4}$ box of pencils were left.

2. ▶ time spent dusting and mopping: $\frac{17}{12}$ hours
 ▶ time spent working: $\frac{48}{12}$ hours
 ▶ time spent in her break: $\frac{13}{12}$ hours

Therefore, Naomie spends $6\frac{1}{2}$ hours.

3. ▶ fraction of flour in the bag of farine: $\frac{17}{20}$ kg
 ▶ fraction used to bake the cookies: $\frac{3}{20}$ kg
 ▶ fraction used to fill up an empty bowl: $\frac{7}{20}$ kg

Therefore, fraction of flour left in the bag is $\frac{7}{20}$ kg

4. ▶ Weight of the bag after filling the bag with wheat grain excluding the weight of the bag = $\frac{9}{10}$ of a kilogram
 ▶ Weight of the bag alone = $\frac{1}{10}$ of a kilogram
 ▶ Weight of the bag after transportation = $\frac{4}{10}$ of a kilogram

Therefore, $\frac{3}{5}$ of gram of wheat grain poured out from the bag

5. ▶ Quantity of wine Mr. White filled the keg of wine with = $\frac{2}{3}$ of a gallon
 ▶ Quantity of wine left in the keg today = $\frac{1}{3}$ of a gallon

Therefore, $\frac{1}{3}$ of a gallon of wine leaked out of the keg.