

Name: Class:

Add and subtract fractions with the same denominator - 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 left?
(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 $\frac{42}{12}$ 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 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 empty bowl with $\frac{7}{20}$ kilogram of flour to use later. How much flour was left in the bag of farine?
4. Mr. Davis sold out $\frac{2}{7}$ of a cup of sugar to one of his customers, Mrs. Garcia came and borrowed $\frac{1}{7}$ of a cup of sugar, and his son came and took $\frac{1}{7}$ of a cup of sugar. How much of a cup of sugar is Mr. Davis left with?
5. Little Harper just got a very beautiful doll house. The doll house came with a playground for children. She used $\frac{2}{10}$ of a playground for placing a merry-go-round for her dolls, $\frac{1}{10}$ of a playground for a slide for her dolls. How much of the playground is left for spring rider, sandbox, swingset, and trapeze rings?
6. 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 weighs $\frac{1}{10}$ of a kilogram, what fraction of the wheat grain poured out from the bag?

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(write your answer as fraction in its lowest terms).

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

Subtraction

$$\frac{7}{8} - \frac{3}{8} = \frac{\overset{1}{\cancel{4}}}{\cancel{8}^2} = \frac{1}{2}$$

Therefore, $\frac{1}{2}$ box of pencils were left.

2. Therefore, Naomie spent 6 hours.

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

4. So, Mr. Davis is left with $\frac{3}{7}$ of a cup of sugar.

5. So, $\frac{7}{10}$ of the playground is left for spring rider, sandbox, swingset, and trapeze rings.

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