

Name: Class:

Add and subtract 3 or more fractions: word problems

- a. On Friday, it took Charles $\frac{9}{10}$ of an hour to do his English homework, $\frac{3}{5}$ of an hour on Saturday and $\frac{2}{5}$ of an hour to finally complete it on Sunday. How many hours did he take to finish his English homework altogether? (Write your answer as a mixed number).
- b. Yesterday, James picked a total of 2 bags of fruits filled with apples, oranges, grapes and pears from his father's orchard. Knowing that he has $\frac{1}{6}$ of a bag of oranges, $\frac{2}{3}$ of a bag of grapes and $\frac{1}{6}$ of a bag of pears, what fraction of a bag of apples did he pick? (Simplify your answer).
- c. 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?
- d. 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?
- e. Of the lamp stands in Lucy's accessory store, $\frac{4}{24}$ are Swing Arm Lamps, $\frac{7}{24}$ Table Lamps, and $\frac{1}{24}$ Candelabra Lamps. What fraction of the lamps are neither Swing Arm Lamps nor Table Lamps nor Candelabra Lamps?
- f. 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 is $\frac{1}{10}$ of a kilogram, what fraction of the wheat grain poured out from the bag?
- g. Patrick picked $\frac{5}{6}$ of a pound of blueberries from their orchard. His younger sister ate $\frac{3}{6}$ of a pound of the blueberries. When Patrick returned from school that afternoon and realized what his sister had done, he got so angry and shouted "you left just $\frac{1}{3}$ of a pound to me?". Was he right?

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- a.** On Friday, it took Charles $\frac{9}{10}$ of an hour to do his English homework, $\frac{3}{5}$ of an hour on Saturday and $\frac{2}{5}$ of an hour to finally complete it on Sunday. How many hours did he take to finish his English homework altogether? (Write your answer as a mixed number).

Let's first of all write down the given information.

The time Charles took to do his homework on Friday = $\frac{9}{10}$

The time Charles took to do his homework on Saturday = $\frac{3}{5}$

The time Charles took to do his homework on Sunday = $\frac{2}{5}$

Now, let's add all the fractions.

$$\frac{9}{10} + \frac{3}{5} + \frac{2}{5} = \frac{9 + 6 + 4}{10}$$

$$= \frac{19}{10} = 1\frac{9}{10}$$

So, it took Charles $1\frac{9}{10}$ hours to finish his homework altogether.

- b.** So, James picked $\frac{1}{3}$ of a bag of apples.
- c.** So, Mr. Davis is left with $\frac{3}{7}$ of a cup of sugar.
- d.** So, $\frac{7}{10}$ of the playground is left for spring rider, sandbox, swingset, and trapeze rings.
- e.** So, $\frac{1}{2}$ of the lamps are neither Swing Arm Lamps nor Table Lamps nor Candelabra Lamps.
- f.** So, $\frac{3}{5}$ of gram of wheat grain poured out from the bag.
- g.** So, yes he was right because the fraction of a pound of blueberry that was left is $\frac{1}{3}$ which is equal to the amount he said his sister left for him.