

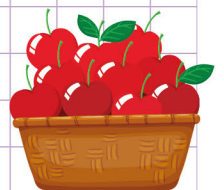
Name: ..... Class: .....

## 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  $\frac{5}{6}$  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)



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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.

$$\begin{aligned}\frac{9}{10} + \frac{3}{5} + \frac{2}{5} &= \frac{9 + 6 + 4}{10} \\ &= \frac{19}{10} = 1\frac{9}{10}\end{aligned}$$

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



- 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  $\frac{5}{6}$  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)

Let's subtract all the fractions of bags from the whole bags of fruits to find the fraction of the bag of apples James picked.

$$\begin{aligned}\frac{2}{1} - \frac{5}{6} - \frac{2}{3} - \frac{1}{6} &= \frac{12 - 5 - 4 - 1}{6} \\ &= \frac{2}{6} = \frac{1}{3}\end{aligned}$$

So, James picked  $\frac{1}{3}$  of a bag of apples

