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

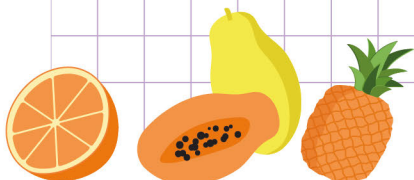## Multiply fractions - word problems

a. In Abigaël's boarding school, $\frac{1}{2}$ of the students are in the school playground. Of those students, $\frac{3}{4}$ are in various sport uniforms. What fraction of Abigaël's boarding school students are in various sport uniforms ?

b. $\frac{4}{6}$ of the left over cake from Mia's birthday is still in the fridge. Mia's brother Bob decided to eat $\frac{2}{4}$ of the cake. What fraction of cake did Mia's brother ate ? (write your answer in its lowest form)

c. Mrs Adams is the head of a health club in their local community. $\frac{2}{3}$ of the members like fruits. Among those who like fruits, $\frac{5}{10}$ like oranges more than anything. What fraction of members are fond of oranges ? (write your answer in its lowest term)

mathskills4kids

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Multiply fractions - word problems

a. In Abigaël's boarding school, $\frac{1}{2}$ of the students are in the school playground. Of those students, $\frac{3}{4}$ are in various sport uniforms. What fraction of Abigaël's boarding school students are in various sport uniforms ?
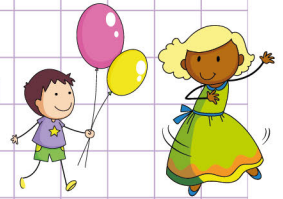
▸ students in playground: $\frac{1}{2}$

▸ those with sport uniforms: $\frac{3}{4}$

Multiplication

$$\frac{1}{2} \times \frac{3}{4} = \frac{1 \times 3}{2 \times 4} = \frac{3}{8}$$

Therefore, $\frac{3}{8}$ students are in various sport uniforms.

b. of the left over cake from Mia's birthday is still in the fridge. Mia's brother Bob decided to eat $\frac{2}{4}$ of the cake. What fraction of cake did Mia's brother ate ? (write your answer in its lowest form)

▸ fraction of cake in the fridge: $\frac{4}{6}$

▸ fraction of cake Bob ate: $\frac{2}{4}$ of $\frac{4}{6}$

Multiplication

$$\frac{2}{4} \times \frac{4}{6} = \frac{\overset{1}{8}}{\underset{3}{24}} = \frac{1}{3}$$

Bob ate $\frac{1}{3}$ of the cake

c. Mrs Adams is the head of a health club in their local community. $\frac{2}{3}$ of the members like fruits. Among those who like fruits, $\frac{5}{10}$ like oranges more than anything. What fraction of members are fond of oranges ? (write your answer in its lowest term)

▸ women members: $\frac{2}{3}$

▸ vegeterians women: $\frac{5}{10}$ of $\frac{2}{3}$

Multiplication

$$\frac{5}{10} \times \frac{2}{3} = \frac{5 \times 2}{10 \times 3} = \frac{\overset{1}{10}}{\underset{3}{30}} = \frac{1}{3}$$

Therefore, $\frac{1}{3}$ members are fond ot oranges.