Name: .... Class: ....
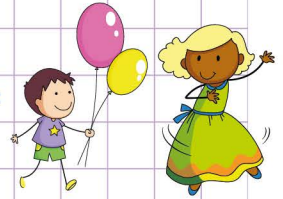
Multiply fractions - word problems

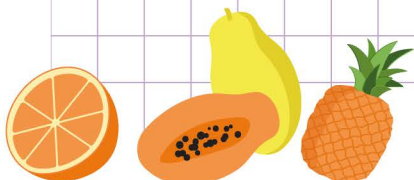**1.** In Abigaël's boarding school, ½ of the students are in the school playground. Of those students, ¾ are in various sport uniforms. What fraction of Abigaël's boarding school students are in various sport uniforms ?

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

3. Mrs Adams is the head of a health club in their local community. ²⁄₃ of the members like fruits. Among those who like fruits, 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

1. In Abigaël's boarding school, ½ of the students are in the school playground. Of those students, ¾ are in various sport uniforms. What fraction of Abigaël's boarding school students are in various sport uniforms ?

▸ students in playground: ½

▸ those with sport uniforms: ¾

Multiplication

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

Therefore, ⅜ students are in various sport uniforms.

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

▸ fraction of cake in the fridge: ⁴⁄₆

▸ fraction of cake Bob ate: ²⁄₄ of ⁴⁄₆

Multiplication

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

Bob ate ⅓ of the cake

3. Mrs Adams is the head of a health club in their local community. ⅔ of the members like fruits. Among those who like fruits, ⁵⁄₁₀ like oranges more than anything. What fraction of members are fond of oranges ? (write your answer in its lowest term).

▸ women members: ⅔

▸ vegeterians women: ⁵⁄₁₀ of ⅔

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, ⅓ members are fond ot oranges.