

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 leftover 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).
- d. Yesterday, Grace left  $\frac{4}{5}$  of a shawarma in the fridge. Her daughter Lucy ate  $\frac{1}{2}$  of the shawarma. What fraction of the shawarma did she eat?
- e. In a leftover pizza box, there is  $\frac{3}{4}$  of a pizza. If I ate  $\frac{2}{3}$  of what was remaining, what fraction of the pizza did I eat?
- f. A recipe calls for  $\frac{3}{5}$  of a cup of corn flour. Out of the  $\frac{3}{5}$  of a cup of corn flour, Barbra only used  $\frac{1}{2}$  of it. How much corn flour did she use?
- g. Out of the  $\frac{3}{5}$  cups of corn flour that the recipe calls for, Barbra wants to triple the recipe instead. How much corn flour will she use?
- h. Every morning before going to school, Benjamin takes  $\frac{3}{5}$  of an hour to brush his teeth and take his bath. If he takes  $\frac{2}{3}$  of this hour to take his bath, what fraction of the time does he use to take his bath?
- i. Joan needs  $\frac{1}{4}$  of a cup of butter for a batch of shortbread cookies. If he made 16 batches of shortbread cookies, how much butter did she use?

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

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

d. So, she ate  $\frac{2}{5}$  of the shawarma.

e. So, I ate  $\frac{1}{2}$  of the pizza.

f. So, she used  $\frac{3}{10}$  of the cup of corn flour out of the  $\frac{3}{5}$  that the recipe calls for.

g. So, she used  $1 \frac{4}{5}$  cup of corn flour that the recipe calls for.

h. So, he used  $\frac{2}{5}$  of an hour to take his bath.

i. So, she used 4 cups of butter.