

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

## Multiply fractions by whole numbers word problems.

- a. Last week, Ethel's bakery sold  $\frac{1}{5}$  as many chocolate cupcakes as vanilla cupcakes. If they sold 15 baskets of vanilla cupcakes, how many baskets of chocolate cupcakes did they sell? Write your answer as a fraction or as a whole number or as a mixed number.
- b. There are 900 students in the school that Handson attends.  $\frac{5}{9}$  of the students are girls. How many girls are there in the school? Write your answer as a fraction, or as a whole number, or as a mixed number.
- c. Mr. Johnson has a building company. Of all the 250 employees,  $\frac{17}{25}$  of the employees are builders. How many employees are builders? Write your answer as a fraction, or as a whole number, or as a mixed number.
- d. 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?
- e. Glen a bartender prepares  $\frac{2}{5}$  of fruit juice and  $\frac{1}{5}$  of spirit to make a cocktail. He then gave  $\frac{1}{3}$  of this cocktail to a customer. What fraction of the cocktail did the customer drink?
- f. On Friday, Peter took  $\frac{2}{3}$  of an hour to read  $\frac{5}{6}$  of a book. If on Saturday he took half as much time as he took on Friday to read  $\frac{5}{6}$  of the book again, how much time did he take to read the book on Saturday?
- g. Caroline spent  $\frac{3}{4}$  of an hour doing an art project. She also spent  $\frac{1}{2}$  of this time drawing a portrait for the project. What fraction of the time did she spend in drawing a portrait for the project?
- h. Of the  $\frac{6}{7}$  snail shells that Mila sells in her antic store,  $\frac{3}{4}$  of it is well decorated with African markings. What fraction of the shells is decorated with African markings?
- i. Mr Martinez owns an animal shelter. At the shelter,  $\frac{5}{8}$  of the animals are dogs. Of the Dogs  $\frac{2}{3}$  have puppies. What fraction of the dogs at the shelter has puppies?

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Ethel's bakery sold  $\frac{1}{5}$  times 15 baskets of chocolate cupcakes.

So, multiply 15 by  $\frac{1}{5}$   $\longrightarrow \frac{1}{5} \times 15 = \frac{15}{5} = 3$

Therefore, Ethel's bakery sold 3 baskets of chocolate cupcakes.

- b. Therefore, there are 500 girls.

- c. Therefore, there are 170 employees that are builders.

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

- e. So, the customer drank  $\frac{1}{5}$  of the cocktail that he made.

- f. So, he took  $\frac{1}{3}$  of an hour to read  $\frac{5}{6}$  of the book on Saturday.

- g. So, she took  $\frac{3}{8}$  of this hour drawing a portrait for the project.

- h. So,  $\frac{9}{14}$  of the snail shells in the store are decorated with African markings.

- i. So,  $\frac{5}{12}$  of the dogs have puppies.