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.
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.

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

So, multiply 15 by \( \frac{1}{5} \) \[ \frac{1}{5} \times 15 = \frac{15}{5} = 3 \]

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

**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.

To solve this problem, multiply the fraction of girls by the total number of students.

So, multiply 900 by \( \frac{5}{9} \) \[ \frac{5}{9} \times 900 = \frac{500}{1} \]

Therefore, there are 500 girls.

**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.

To solve this problem, multiply 250 by \( \frac{17}{25} \) to know the number of employees that are builders.

So, multiplying 250 by \( \frac{17}{25} \) \[ \frac{17}{25} \times 250 = 170 \]

Therefore, there are 170 employees that are builders.