Multiply Fractions Word Problems Worksheets

2. $\frac{5}{8}$ of the songs on Harrison's music player are hip-hop. $\frac{1}{3}$ of the remaining songs are rhythm and blues. What fraction of all the songs are rhythm and blues? Use a tape diagram to solve.

3. Three-fifths of the students in a room are girls. One-third of the girls have blond hair. One-half of the boys have brown hair.

   a. What fraction of all the students are girls with blond hair?

   b. What fraction of all the students are boys without brown hair?

4. Cody and Sam mowed the yard on Saturday. Dad told Cody to mow $\frac{1}{4}$ of the yard. He told Sam to mow $\frac{1}{3}$ of the remainder of the yard. Dad paid each of the boys an equal amount. Sam said, "Dad, that's not fair! I had to mow one-third, and Cody only mowed one-fourth!" Explain to Sam the error in his thinking. Draw a picture to support your reasoning.

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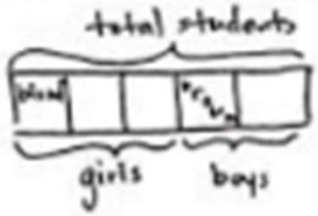
$\frac{1}{3}$ of 3 eighths = 1 eighth

$\frac{1}{8}$ of all the songs are rhythm & blues.

3. Three-fifths of the students in a room are girls. One-third of the girls have blond hair. One-half of the boys have brown hair.

a. What fraction of all the students are girls with blond hair?



$\frac{1}{3}$ of 3 fifths = 1 fifth

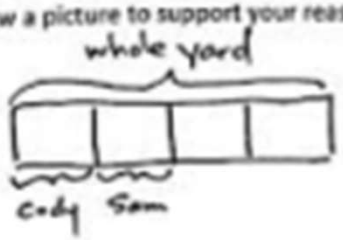
$\frac{1}{5}$ of all the students are girls with blond hair.

b. What fraction of all the students are boys without brown hair?

$\frac{1}{2}$ of 2 fifths = 1 fifth

$\frac{1}{5}$ of all the students are boys without brown hair.

4. Cody and Sam mowed the yard on Saturday. Dad told Cody to mow $\frac{1}{4}$ of the yard. He told Sam to mow $\frac{1}{3}$ of the remainder of the yard. Dad paid each of the boys an equal amount. Sam said, "Dad, that's not fair! I had to mow one-third, and Cody only mowed one-fourth!" Explain to Sam the error in his thinking. Draw a picture to support your reasoning.



$\frac{1}{3}$ of 3 fourths = 1 fourth

After Cody mowed $\frac{1}{4}$ of the yard, $\frac{3}{4}$ is left. Sam then mowed $\frac{1}{3}$ of $\frac{3}{4}$, which is equal to 1 fourth. They both mowed an equal part of the yard.