

## FRACTION WORD PROBLEMS WITH UNLIKE DENOMINATORS

### HOMEWORK GRADE

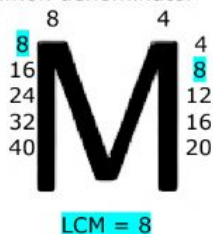
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Select the correct answer. Always simplify to find your lowest fraction.

Example: Solve for the difference of  $\frac{4}{8}$  and  $\frac{1}{4}$ .

Step 1: Set up your problem  $\rightarrow \frac{4}{8} - \frac{1}{4} =$

Step 2: Find the LCM using the two denominators in order to find a common denominator



Step 3: Change your denominators to 8 for the common denominator. Then change your numerator. Since  $\frac{4}{8}$  already has a denominator of 8, your numerator will not change. The fraction  $\frac{1}{4}$  needs to be changed, the 4 becomes 8 by being multiplied by 2, so the numerator 1 has to be multiplied by 2 to equal 2. Now solve!

1. Ariel walked  $\frac{5}{12}$  of a mile to the park. Then she walked  $\frac{1}{3}$  of a mile to the ice shop. How far did Ariel walk?

$\frac{3}{4}$	$\frac{9}{12}$	$\frac{6}{15}$
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2. Grandma is baking two different types of sweets. She uses  $\frac{2}{3}$  cup of sugar for the cake and  $\frac{1}{6}$  cup of sugar for the brownies. How much sugar did grandma use?

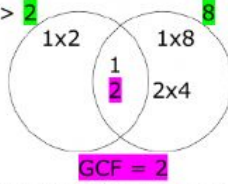
$\frac{5}{6}$	$\frac{3}{6}$	$\frac{3}{9}$
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$$\frac{4}{8} - \frac{1}{4} =$$

$$\frac{4}{8} - \frac{2}{8} = \frac{2}{8}$$

Step 4: Simplify your answer by finding the GCF of your answer in step 1.

numerator -> 2      8 <- denominator



Step 5: Divided your numerator and denominator by the GCF.

$$\frac{2}{8} \div \frac{2}{2} = \frac{1}{4}$$

Final Answer:  $\frac{1}{4}$

\* Remember – if your GCF = 1, then your fraction is in its simplest form, it stays the same.

3. Javyn ordered a pizza for dinner. The whole pizza was cut into  $\frac{8}{8}$  slices. He ate  $\frac{1}{4}$  of the pizza before leaving for practice. How much of the pizza is left?

$\frac{6}{8}$	$\frac{7}{4}$	$\frac{3}{4}$
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4. Mrs. Jefferson is making a quilt. She started sewing with  $\frac{11}{12}$  of her fabric. When she finished for the evening, she only had  $\frac{1}{6}$  of her fabric left. How much fabric did Mrs. Jefferson use?

$\frac{9}{12}$	$\frac{3}{4}$	$\frac{10}{6}$
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