

Advanced Challenge Level 1 Problem #39

This challenge is designed to assess your knowledge and understanding of fraction operations. As part of this project, you must work in a group of your peers to create each of the following. Then you must present your finished work to the class.

***** You must design a math poster which clearly shows how the four operations, addition, subtraction, multiplication, and division, are performed on fractions. Your poster should show at least two examples of each operation.**

***** You must correctly add the fractions $\frac{2}{5}$ and $\frac{3}{8}$. Then you must use a model of your choosing to demonstrate that your answer is a correct one. This may be included either on your poster or on a separate piece of paper.**

***** You must correctly multiply the fractions $\frac{3}{4}$ and $\frac{5}{6}$. Then you must use a model of your choosing to demonstrate that your answer is a correct one. This may be included either on your poster or on a separate piece of paper.**

Your finished products will be evaluated using the following standards.

1. All required parts of the project are present.
2. Each operation was done correctly and the explanation written was understandable.
3. The model used to demonstrate the sum of $\frac{2}{5}$ and $\frac{3}{8}$ was effective and correctly designed.
4. The model used to demonstrate the product of $\frac{3}{4}$ and $\frac{5}{6}$ was effective and correctly designed.
5. The poster(s) was/were creatively and colorfully designed, pleasant to look at, understandable, and large enough to be read from a distance of ten feet.

Your presentation will be evaluated using the following standards.

1. All members of the group played an active, speaking roll in the presentation.
2. All members of the group demonstrated a good knowledge of the subject.
3. The presentation was well organized and effective in demonstrating the correct methods used to add, subtract, multiply and divide fractions.
4. All members of the group demonstrated good public speaking skills. (speak clearly, face your audience, come prepared, etc.)
5. The group's presentation lasted no more than seven minutes.