

Try to solve each problem in at least two different ways. Your reasoning must be clear and convincing. Try to avoid standard algorithms (especially if they don't make sense to you).

Carrie's recipe calls for $\frac{2}{3}$ cup of butter, but she only has $\frac{1}{2}$ cup. Assuming she has enough of all the other ingredients, what portion of a whole recipe can Carrie make?

Travis first put $\frac{3}{4}$ of a cup of butter in the sauce he is making. Then Travis added another $\frac{1}{3}$ of a cup of butter. How much butter is in Travis's sauce?

Megan has $35\frac{1}{2}$ yards of material available to make shirts. Each shirt requires $\frac{3}{8}$ of a yard of material.

How many whole shirts can she make?

How much (if any) material will be left over?

What fraction of a shirt could Megan make with the leftover material?