



Problem of the Week

Problem B

A Piece of Cake



Suki is making a special chocolate cake for her friend Maya. To make this chocolate cake, she needs sugar, cocoa powder, and flour in the ratio 8 : 3 : 7.

- Express the needed flour as a fraction of the needed sugar.
- Express, in lowest terms, the needed cocoa powder as a fraction of the total of the three ingredients.
- Suppose the recipe requires 400 g of sugar. How much cocoa powder does she need?
- Another cake recipe requires 120 g of cocoa powder. If the ratios remain the same, how much sugar does she need? How much flour?
- If she wished to make a cake weighing 1.8 kg, could she determine the required weight of each ingredient from the given ratios? Explain your answer.

Check out other CEMC resources here:
cemc.uwaterloo.ca/resources/resources.html

STRAND: NUMBER SENSE, MEASUREMENT

