

BLM 1: Cake Task

Student Name: _____

You have a rectangular cake.

You love chocolate icing and red sprinkles but don't have enough of either to cover the whole cake.

You have enough icing to put a good layer on $\frac{3}{4}$ of your cake and then you put sprinkles on $\frac{1}{5}$ of the part that's iced.

You decide to cut the cake into equal pieces so that there will be some pieces with no icing or sprinkles (for people who don't like either), some pieces with only icing, and some pieces with both icing and sprinkles (no pieces are partially covered with icing and/or sprinkles).

What fraction of the whole cake has both chocolate icing and sprinkles?

How much of the whole cake is left?

Use a model to solve the problem.