



Problem of the Week

Problem A and Solution

Fun With Fudge

Problem

At the end of the division unit, Mr. Chocolate baked two special batches of fudge for his school. One batch was double chocolate chunk and the other was maple. He cut each batch into equally sized pieces. There were 150 pieces of double chocolate chunk and 284 pieces of maple.

Each class in the school could select one type of fudge. Four classes selected the double chocolate chunk, and eight classes selected the maple. Mr. Chocolate divided up the batches of each type of fudge equally to distribute to the classes.

Did each class get the same amount of fudge?
Were there any pieces of fudge left over?
Justify your answers.

Solution

Since there were 4 classes that selected double chocolate chunk, we can divide the number of pieces by 4. This is $150 \div 4 = 37$ with a remainder of 2. So, each of these classes gets 37 pieces of double chocolate chunk fudge and there are 2 pieces left over.

Since there were 8 classes that selected maple, we can divide the number of pieces by 8. This is $284 \div 8 = 35$ with a remainder of 4. So, each of these classes gets 35 pieces of maple fudge and there are 4 pieces left over.

So, the classes that chose double chocolate chunk fudge got more pieces than the classes that chose maple fudge.