

World's Largest Cookie

Lesson Plan



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The Task

The world's largest chocolate chip cookie was created using 40,000 pounds of cookie dough! (The recipe is listed below.) A school wants to make a smaller version of this cookie to feed all 800 students in their school. They decide that each pound of dough will feed 4 students. How many pounds of chocolate chips will they need?

Materials

Extra paper for students to sketch out ideas
Manipulatives as needed, such as cubes or chips

Facilitating Task

You may choose to launch this task by looking at pictures of the world's largest cookie at

www.immaculatebaking.com

Allow students to work in partner groups.

As students work, circulate around the class, listening for places students may be stuck, asking questions to facilitate student thinking, and looking for strategies you may want to be shared with the class.

Whole class discussion: Select a few students to share their approaches to facilitate discussion of math ideas.

Misconceptions

Because the numbers are so large, students may be overwhelmed by the calculations.

Students may have trouble coordinating quantities and keeping track of what each number represents in the context of the problem.

Suggested Prompts or Questions

Supporting thinking:

How much cookie dough will be needed for 800 people?

What does this number represent in the story?

What have you done so far? What will you need to figure out next?

How will you know if your answer makes sense?

Extending thinking:

If you wanted to figure out how much of the other ingredients are needed, what method would you use next time?

What if they decided each pound of dough could feed 8 students? How would that change your answer?

What other questions could the class explore related to this giant cookie?