

Family Movie Night Popcorn Sharing

M2C3 Project (2018)



This is a giant bag of popcorn

- What do you notice?
- What do you wonder?



What questions do you have that you could use mathematics to answer?



Routine: Mathematizing the World Specific Questions

SAMPLE QUESTIONS

- How much popcorn is in the bag?
- How could we share this giant bag of popcorn in a fair way?
- How many people would it serve?



TASK A: Popcorn at Class Movie Night

Your CLASS is having a movie night for students and their families. You will serve popcorn as a snack. You will get giant bags of popcorn to share and scoop out servings for each person.

How many giant bags of popcorn does your CLASS need for the movie night?

You need to make sure there is enough popcorn, but not a lot of leftover popcorn.

Make a plan to share with the movie night organizers.



TASK B: Popcorn at School Movie Night

Your SCHOOL is having a movie night for students and their families. You will serve popcorn as a snack. You will get giant bags of popcorn to share and scoop out servings for each person.

How many giant bags of popcorn does your SCHOOL need for the movie night?

You need to make sure there is enough popcorn, but not a lot of leftover popcorn.

Make a plan to share with the movie night organizers.



How could we answer this question?

What do we *know* that could help us?

What would we *need to know*? How could we *get this information*?

What would we need to *assume* or *decide*?



OPTIONAL INFORMATION

This is the nutrition label from a giant bag of popcorn.

What does this tell you about the bag of popcorn?

How can you use this information to help you share the bag of popcorn?



POPCORN PLAN Criteria

Your plan to share the popcorn must show how:

- everyone gets enough popcorn
- it is a fair plan
- you can use the plan in other sharing situations

You can use pictures, numbers and words to communicate your plan.

