

# Wooly Pocket Gardens

M2C3 (2018)

Vertical gardens allow us to grow plants and vegetables in small spaces by hanging the gardens on walls or fences.



What do you notice?

What do these pictures make you wonder about?

What questions do you have?

What would you need to know to answer those questions?



# The Woolly Pocket

## Task 1: How much soil?



Our school received ten Woolly Pocket vertical gardens.

Five classrooms were given two Woolly Pockets each.

Molly needs to see if she has enough funding to purchase soil for **all** the Woolly Pockets.

Figure out how much soil is needed for each classroom's Woolly Pockets.

Questions to think about:

- What do you know?
- What do you need to find out?
- What do you need to *assume*?

Create a model that shows:

- The amount of soil needed for one Woolly Pocket.
- The amount needed for all Woolly Pockets.

You can use pictures, numbers and words in your model.

## The Woolly Pocket Task 2: How much will the soil cost?

Molly says she needs \$200 to purchase enough soil for all ten Woolly Pockets. Cardinals say she will need \$300.

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- Who do you agree with, and why? Or if you do not agree with either estimate, then tell how much you think the soil will cost, and justify your answer.
  - Questions to think about:
    - What do you know?
    - What do you need to find out?
    - What do you need to *assume*?

# What will it cost to fill the Woolly Pockets with soil?



## Create a model that shows:

- The cost for enough bags of soil for one class (two Woolly Pocket gardens)
- The cost for enough bags for all five classes (ten Woolly Pocket gardens).
- Do you agree with Molly or Cardinals about the cost of the soil?

You can use pictures, numbers and words in your model.



If we have three types of soil we can buy, which would cost the least amount of money?

