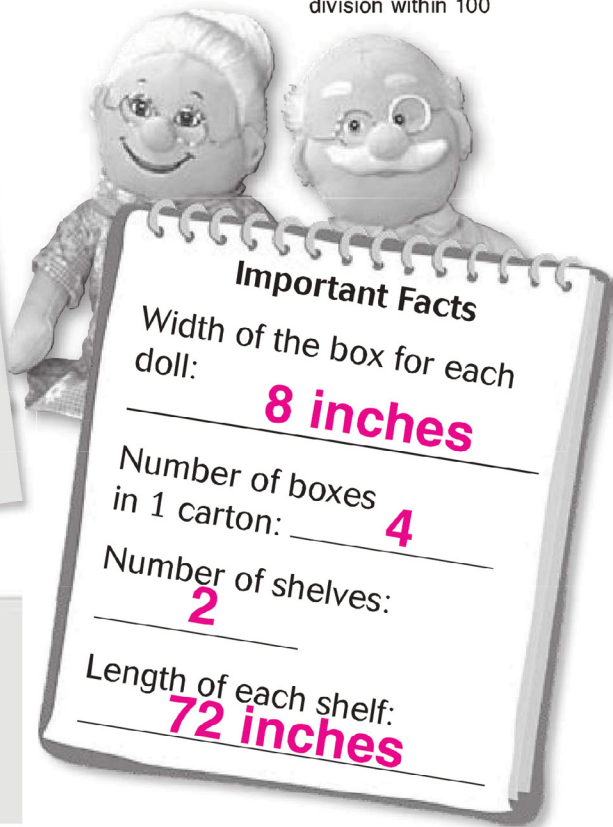## Project

Inventing Toys

1

Plan
- You need to fill two shelves in the toy store with boxes of Abuelito dolls. Find out how many cartons of dolls to order.
- Use the information on page 2 in your math book to help you plan.
- Complete the Important Facts first.

Important Facts

Width of the box for each doll:
8 inches

Number of boxes in 1 carton: **4**

Number of shelves:
2

Length of each shelf:
72 inches

2

Put It Together
- Find the width of each box.
- Find the length of each shelf in inches.

Width of each box:
8 inches

Length of one shelf:
72 inches

How many boxes will fill one shelf?

$9 \times 8 = 72$; **9 boxes**

How many boxes will fill two shelves?

$9 + 9 = 18$ **boxes**

How many cartons of dolls are needed to fill two shelves? **Explain.**

5 cartons; Possible explanation: I need 18 boxes to fill two shelves. There are 4 boxes in a carton. So, 4 cartons is $4 + 4 + 4 + 4 = 16$ dolls. But I need two more dolls to make 18. That means I need another carton, which makes 5 cartons in all.

③ Reflect

You found the number of cartons of dolls needed to fill two shelves in the toy store. You also found the number of boxes of dolls that would fit on two shelves.

How many dolls are in the cartons needed to fill two shelves? Will all the dolls fit on the two shelves? Explain.

Possible explanation: there are 4 dolls in a carton and you need 5 cartons to fill two shelves: 4 + 4 + 4 + 4 + 4 = 20. But only 9 boxes of dolls will fit on one shelf and 18 boxes of dolls will fit on two shelves. That means that 20 − 18, or 2, dolls will not fit on the two shelves.

④ Go Beyond

The two grandparent dolls have three grandchildren dolls. Suppose you put one of each kind of Abuelito doll out on a counter. Children who come into the store could hear the dolls' songs to help them decide which doll they would like. Use the information on page 2 in your math book to complete this table. How many doll songs are there in all?

ABUELITO DOLLS	
Doll	Number of Songs
Abuelita Rosa	**6**
Abuelito Pancho	**4**
Baby Andrea	**5**
Baby Tita	**5**
Baby Mimi	**0**

6 + 4 + 5 + 5 + 0 = 20 songs