

Name _____ Date _____

Description of Investigation and Student Report
Be an Investigator

Dear Investigator _____,
(name)

I am making a birdhouse. I have boards of wood that are one foot long. I have to cut fourteen pieces of wood that are shorter than one foot long. I'd like to cut these pieces of wood using the least number of the one-foot boards as possible. Could you tell me the pieces I should cut out of each one-foot board?

Thank you so much for your help.

Sincerely,
Susie Yang
Fabric Designer

Name _____ Date _____

Description of Investigation and Student Report
Be an Investigator (continued)**Information**

Length of Board	Number of Pieces
$\frac{1}{2}$ foot	2
$\frac{1}{3}$ foot	1
$\frac{2}{3}$ foot	1
$\frac{1}{4}$ foot	5
$\frac{3}{4}$ foot	1
$\frac{1}{8}$ foot	1
$\frac{3}{8}$ foot	1
$\frac{5}{8}$ foot	1
$\frac{7}{8}$ foot	1

Name _____ Date _____

Be an Investigator
Student Report

Dear Jay,

Here is how I think you should cut the boards in order to use the fewest one-foot boards as possible. You will need to use _____ one-foot boards for my plan.

Good luck with your exhibit.

I hope this helps you.

Yours truly,

Investigator _____
(your name)