

Name _____ Date _____

Description of Investigation and Student Report
Be an Investigator

Dear Investigator _____,
 (name)

I am a house painter. There are certain popular shades of paint that many of my customers ask for. I find I am always solving problems like, “If I have two quarts of yellow paint and the yellow/blue/red mixture for that color is 10%/20%/70%, how much blue and red paint do I need in the mixture for that color?” It occurred to me that if I had tables with this information already calculated, I wouldn’t have to do the calculations for each customer.

I was wondering if you could help me out with this. I have set up the tables. All you need to do is complete them. I would like you to also tell me how you figured out the numbers that went in each table.

Thank you so much, and if you ever need your house painted I will give you a special deal.

Sincerely,
 Enrique Smith

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Information

Colonial Blue

Blue: 80%	Purple: 5%	White: 15%
	2 quarts	

Brick Red

Orange: 5%	Red: 85%	Brown: 10%
		4 quarts

Bright Yellow

Yellow: 90%	Orange: 5%	White: 5%
	3 quarts	

Name _____ Date _____

**Be an Investigator
Student Report**

Dear Mr. Smith,

I have made the calculations you asked for.

Colonial Blue

Blue: 80%	Purple: 5%	White: 15%
	2 quarts	

This is how I figured it out: _____

Brick Red

Orange: 5%	Red: 85%	Brown: 10%
		4 quarts

This is how I figured it out: _____

Bright Yellow

Yellow: 90%	Orange: 5%	White: 5%
	3 quarts	

This is how I figured it out: _____

I hope this makes your job easier.

Yours truly,

Investigator _____

(name)