

**Chapter
5****Performance Task** (continued)**Mixing Paint**

How do you use paint tints to make a desired paint color?

The table shows the amounts of tints that you should add to 1 gallon of base paint to make the given paint colors.

Paint Color	Red Tint (parts per gallon)	Blue Tint (parts per gallon)	Yellow Tint (parts per gallon)	White Tint (parts per gallon)
Orange	1	0	1	0
Teal	0	2	1	0
Dark pink	3	0	0	1
Lime green	0	2	5	0
Plum purple	3	2	1	1

1. When mixing lime green paint, what is the ratio of yellow tint to blue tint?

2. When only 1 part of blue tint is available, how many parts of yellow tint should you use to make the same shade of lime green? How much base paint should you use?

3. You need 3 gallons of plum purple paint. Write and solve proportions to determine how many parts of each tint you need.

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4. You make 1 gallon of dark pink paint and double the amount of each tint recommended in the table. You make 1 gallon of teal paint and double the amount of each tint recommended in the table. You mix the two gallons of paint. What color did you make? Use ratios to explain your reasoning.

5. Yesterday your friend made 1 gallon of dark pink paint using the information in the table. Today she needs to make 3 more gallons of the same shade. She says that she should add 9 parts red tint and 2 parts white tint to 3 gallons of base paint. Explain the error in her reasoning.