Name _____ Date _____

# Chapter 5 Performance Task (continued)

## Rubric

| Mixing Paint | Points |
|---|---|
| 1. The student correctly states the ratio in any form.<br>5 : 2; 5 to 2; $\frac{5}{2}$ | **2** Correct identifies the ratio |
| 2. 2.5 parts yellow tint; 0.5 gal base paint | **2** Total possible points<br>**1** Point for each correct calculation |
| 3. $\frac{3}{1} = \frac{r}{3}$ $\frac{2}{1} = \frac{b}{3}$ $\frac{1}{1} = \frac{y}{3}$ $\frac{1}{1} = \frac{w}{3}$<br>$r = 9$ $b = 6$ $y = 3$ $w = 3$<br>9 parts red, 6 parts blue, 3 parts yellow, 3 parts white | **8** Total possible points<br>**1** Point for each correct proportion<br>**1** Point for each correct calculation |
| 4. plum purple; There will be 2 gallons of paint. The ratio of tints will be 6 : 4 : 2 : 2 for red, blue, yellow, and white. This is the same ratio of tints for 2 gallons of plum purple paint. | **4** Thoughtful response that references ratios<br>**2** Well-written response without reference to ratios<br>**1** Poorly written response without reference to ratios |
| 5. For 1 gallon of dark pink paint, the ratio of red tint to white tint is 3 : 1. So, for 3 gallons of the same shade, the ratio is 9 : 3, or 9 parts red tint to 3 parts white tint, not 2 parts white tint. | **4** Thoughtful response that references ratios<br>**2** Well-written response without reference to ratios<br>**1** Poorly written response without reference to ratios |
| **Mathematical Practices:**<br>Create sound arguments and analyze the arguments of others. Students will use ratios to identify an error. | **3** The student uses knowledge of ratios and reasoning to effectively create and analyze arguments. Award partial credit as needed. |
| **Total Points** | **25 points** |