

**Chapter
6****Performance Task (continued)****Rubric**

Tornado Alley	Points																								
1. <table border="1"> <tr> <td>Texas</td><td>43</td><td>155</td><td>27.7%</td></tr> <tr> <td>Oklahoma</td><td>28</td><td>62</td><td>45.2%</td></tr> <tr> <td>Kansas</td><td>38</td><td>96</td><td>39.6%</td></tr> <tr> <td>Nebraska</td><td>17</td><td>57</td><td>29.8%</td></tr> <tr> <td>Iowa</td><td>12</td><td>51</td><td>23.5%</td></tr> <tr> <td>Missouri</td><td>12</td><td>45</td><td>26.7%</td></tr> </table>	Texas	43	155	27.7%	Oklahoma	28	62	45.2%	Kansas	38	96	39.6%	Nebraska	17	57	29.8%	Iowa	12	51	23.5%	Missouri	12	45	26.7%	6 Total possible points 1 Point for each correct calculation
Texas	43	155	27.7%																						
Oklahoma	28	62	45.2%																						
Kansas	38	96	39.6%																						
Nebraska	17	57	29.8%																						
Iowa	12	51	23.5%																						
Missouri	12	45	26.7%																						
2. $\frac{43}{w} = \frac{154}{100}$; $w \approx 28$ tornadoes	2 Total possible points 1 Point for each correct answer																								
3. $\frac{a}{62} = \frac{3}{100}$; $a \approx 1$ tornado	2 Total possible points 1 Point for each correct answer																								
4. $p \approx 15.8\%$; $\frac{96 + 57 + 45}{1253} = \frac{p}{100}$	2 Total possible points 1 Point for each correct answer																								
5. <i>Sample answer:</i> In both methods, you are adding the same parts of a whole. The whole 1253 is represented by 1253 and by 100%. Because $\frac{a}{w} = \frac{p}{100}$, the relationships between part and whole are equal.	4 Thoughtful response that references calculations 2 Well-written response without reference to calculations 1 Poorly written response without reference to calculations																								
Mathematical Practices: Understand complex problems and show determination when solving them. Students will write and solve proportions.	4 The student knows how to represent the part, whole, and percent in a percent problem, as well as solve for the unknown. Award partial credit as needed.																								
Total Points 20 points																									