

**Math Corrections Template**

Assignment title: \_\_\_\_\_

<p><b>Original Problem</b> Copy the original problem.</p> <p>Problem <u>6</u></p> <p><i>A string of red holiday lights blinks once every 3 seconds, while a string of blue lights blink once every 4 seconds. How many times will both sets of lights blink at the same time in 1 minute (60 seconds)?</i></p>	<p><b>Correction</b> Show all the correct work and circle the answer.</p> <p><i>Red holiday lights blinks at: 3 sec, 6 sec, 9 sec, 12 sec, 15 sec, 18 sec, ... <b>multiples of 3</b></i> <i>Blue holiday lights blink at: 4 sec, 8 sec, 12 sec, 16 sec, 20 sec, 24 sec,... <b>multiples of 4</b></i> <i>Red and blue lights blink at the same time at the <b>common multiples of 3 and 4 seconds.</b></i> <i>LCM (least common multiple) of 3 and 4 = <b>12</b></i> <i>12 minutes go into 60 seconds (1 minutes) 5 times because <math>60/12 = 5</math>.</i> <i>In 1 minutes (60 seconds), both lights blink at the same time <b>5 times.</b></i></p> <p><b>Explanation</b> Explain what you did wrong and how you corrected it now.</p> <p><i>Originally, I didn't know that the red and blue lights will blink at the same time at the common multiples of 3 and 4. I corrected my error by finding the LCM of 3 and 4, and then using the LCM of 12 to find how many times 12 fits into 60 seconds.</i></p>
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