

**Order of Operations: Find the Mistake!**

**Directions:** Each problem below has been solved **incorrectly**. Your job is to discover any mistakes that were made and explain them in words. Then, solve the problem correctly making sure to **show all steps**.

<p><b>Problem 1:</b>  <math>(3 + 30 \div 3) \cdot 3 - 2</math>  <math>(33 \div 3) \cdot 3 - 2</math>  <math>11 \cdot 3 - 2</math>  <math>33 - 2</math>  <math>31</math></p>	<p><b>Problem 2:</b>  <math>[6 + 100 \div 10 + 9^2 \cdot 4]</math>  <math>[6 + 100 \div 10 + 18 \cdot 4]</math>  <math>[6 + 10 + 18 \cdot 4]</math>  <math>[6 + 10 + 72]</math>  <math>[16 + 72]</math>  <math>88</math></p>	<p><b>Problem 3:</b>  <math>2 + (2 + 7^2 + 60 \div 6)</math>  <math>2 + (2 + 49 + 60 \div 6)</math>  <math>2 + (51 + 60 \div 6)</math>  <math>2 + (51 + 10)</math>  <math>2 + 61</math>  <math>63</math></p>
<p><b>Problem 4:</b>  <math>15 + (20 - 4)^2 - 6</math>  <math>15 + (20 - 16) - 6</math>  <math>15 + 4 - 6</math>  <math>19 - 6</math>  <math>13</math></p>	<p><b>Problem 5:</b>  <math>2 + (9 + 4^3 - 70) + 30 \div 6</math>  <math>2 + (9 + 64 - 70) + 30 \div 6</math>  <math>2 + (9 + 6) + 30 \div 6</math>  <math>2 + 15 + 30 \div 6</math>  <math>2 + 15 + 5</math>  <math>17 + 5</math>  <math>22</math></p>	<p><b>Problem 6:</b>  <math>[4(12 - 6) \div 2]^2</math>  <math>[4 + 6 \div 2]^2</math>  <math>[4 + 3]^2</math>  <math>7^2</math>  <math>49</math></p>

**Problem 1:**

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**Problem 2:**

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Problem 3:

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Problem 4:

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Problem 5:

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Problem 6:

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