

Lesson 3.11 – Writing Equations to Represent Situations I

Write each of the following statements using symbolic language and solve.

Statement and symbolic language	Work for solving equation
1. The product of 8, and a number increased by 6, is 104. What is the number?	
2. The product of 5, and 3 more than twice a number, is 85. What is the number?	
3. Two less than three times a number is equal to 14 more than five times the number. What is the number?	
4. Nine more than five times a number is equal to 3 less than seven times the number. What is the number?	

<p>5. If 2 is subtracted from a number and this difference is tripled, the result is 6 more than the number. Find the number.</p>	
<p>6. If 3 is added to a number and this sum is doubled, the result is 2 more than the number. Find the number.</p>	
<p>7. The sum of three times a number and 7 more than the number is the same as the difference between -11 and twice the number. What is the number?</p>	
<p>8. When you add 18 to $\frac{1}{4}$ of a number, you get the number itself.</p>	

Review - Write each of the following statements using symbolic language and solve.

<p>R#1</p> <p>If 7 is added to five times a number, the result is equal to three times the number. Find the number.</p>	
<p>R#2</p> <p>If 4 is subtracted from twice a number, the result is 36. Find the number.</p>	
<p>R#3</p> <p>If 4 is added to twice a number and this sum is multiplied by 2, the result is the same as if the number is multiplied by 3 and 4 is added to the product. What is the number?</p>	