MM	Algebra
Mr.	Villegas

As you read the task below, underline any word you think might be important. Write a question mark next to anything you don't understand. Draw a box around the question or task you are being asked to complete, if any.

Substitute, Substitute

For each of Questions 1 through 9, show both of these steps.

- Replace the variable by the value shown, writing the resulting expression in complete detail.
- Compute the numeric value of the expression you get in the replacement step.

Be sure to insert parentheses or multiplication signs where needed.

Note: The instructions in Questions 1 through 9 illustrate some of the many ways to describe the process of substitution. You should use the two steps of replacement and evaluation in each case.



1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

- **1.** Evaluate 5 + 6q at q = 9.
- 2. Find the value of 3z + 20 when z = -8.
- 3. Get the numeric value of 15 4x for x = -1.
- 4. Evaluate $3t^2 + 7$ if t = -2.
- 5. What is $-r^2$ when r=8?
- **6.** Find $-w^2$ with w = -6.
- 7. Substitute k = 3 into $3 \cdot 2^k + 5$.
- 8. Evaluate $3a^3 + (4a)^2$ using a = 5.

9. Compa	re the result	S
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- **a.** Substitute b = 6 into 5b + 4 + 3b + 7.
- **b.** Substitute b = 6 into 8b + 11.
- c. Comment on what happened in parts a and b and explain why.

a)	
b)	
c)	