Order of Operations Unit 1 Project

Your mobile is due _____ **!**

Projects may be turned in early.

This project will be your first MAJOR grade of the first nine weeks.

You are given a number.

Your assignment is to create an equation with a total of 6-8 steps to get the assigned number as your answer. You MUST have at least 6 steps, but not more than 8.

Step 1 is the problem.

The final step is the answer.

Guidelines:

You must use ***all*** four operations (+, -, x, ÷), parenthesis and exponents (PEMDAS!) in your problem. Operations can be repeated, but there must be at least one of each type.

You may NOT use multiplication by one or add zero to a number. Be creative!

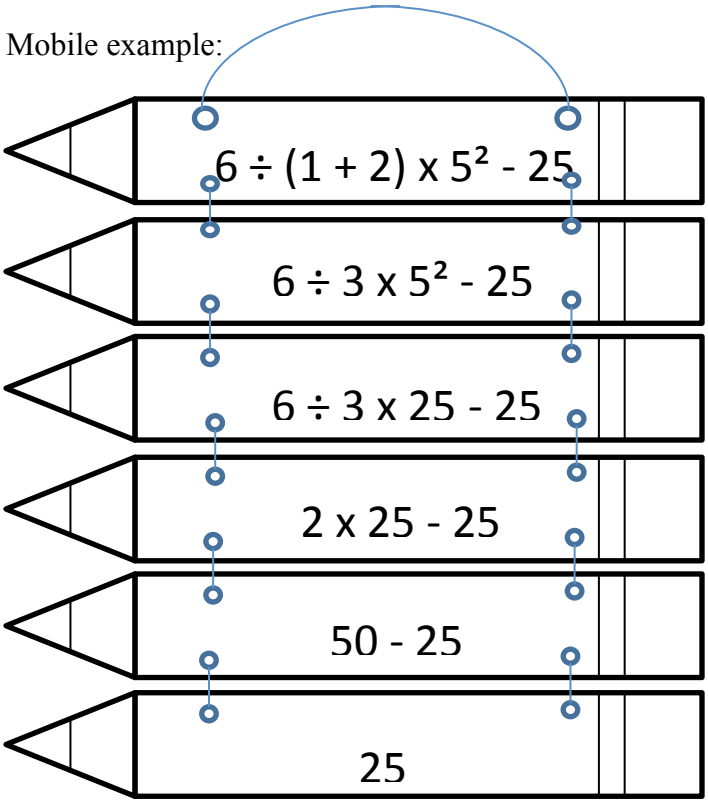
Mobiles should be colored and decorated. Your final product must be legible. Mobile should be connected together with string or wire.

Your number is _____

Example problem:

Number given: 25
Step 1: $6 \div (1 + 2) \times 5^2 - 25$
Step 2: $6 \div \mathbf{3} \times 5^2 - 25$
Step 3: $6 \div 3 \times \mathbf{25} - 25$
Step 4: $\mathbf{2} \times 25 - 25$
Step 5: $\mathbf{50} - 25$
Step 6: **25**

Mobile example:



Name _____ Period ____

Order of Operations Grading Rubric

Guideline	Points Available	Points Earned
Turned in on time	10	
6-8 step problem At least 6 steps, not more than 8 steps	10	
Addition included	10	
Subtraction included	10	
Multiplication included	10	
Division included	10	
Parenthesis included	10	
Exponent included	10	
Equation answer is correct	10	
Mobile completed, decorated and legible	10	
Turned in early	+3	
Total Possible Points	103	