

## Challenge Problems Rubric

**Challenge Problems** are worth 30 points each. 6 points will be earned for the correct answer. This includes using appropriate units. 12 points will be earned by **showing the mathematical process** used in getting the answer. The last 12 points will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

<b>6 points</b> The answer is correct with appropriate units.	<b>5 points</b> The answer is correct. Appropriate units are not given.	<b>4 points</b> The answer is not correct. The mistake was caused by careless error(s).	<b>2 points</b> The answer is not correct. The mistake was caused by misunderstanding of key concepts.	<b>0 points</b> No answer was given.
<b>12 points</b> The mathematical process shown was neat, complete, well organized, and produced correct results. An appropriate diagram is included, if required.	<b>10 points</b> The mathematical process shown produced correct results. The work shown is incomplete or lacks organization and clarity.	<b>8 points</b> The mathematical process shown produced incorrect results. The work shows understanding of key concepts with careless errors.	<b>4 points</b> The mathematical process shown produced incorrect results. The work shows major misunderstanding of key concepts.	<b>0 points</b> No mathematical process is shown.
<b>12 points</b> The written explanation completely explains the student's thought process when solving the problem. The explanation is well written using appropriate grammar.	<b>10 points</b> The written explanation does explain the student's thought process when solving the problem. However, the student used incomplete sentences or poor grammar.	<b>8 points</b> The written explanation only partially explains the student's thought process when solving the problem.	<b>4 points</b> The written explanation does not explain the student's thought process used when solving the problem.	<b>0 points</b> No written explanation is given.