

## Math - Problem Solving : Dinner Party!

Teacher Name: \_\_\_\_\_

Student Name: \_\_\_\_\_

CATEGORY	4	3	2
Mathematical Reasoning	Uses complex and refined mathematical reasoning.	Uses effective mathematical reasoning	Some evidence of mathematical reasoning.
Use of Manipulatives	Student always listens and follows directions and only uses manipulatives as instructed.	Student typically listens and follows directions and uses manipulatives as instructed most of the time.	Student sometimes listens and follows directions and uses manipulatives appropriately when reminded.
Working with Others	Student was an engaged partner, listening to suggestions of others and working cooperatively throughout lesson.	Student was an engaged partner but had trouble listening to others and/or working cooperatively.	Student cooperated with others, but needed prompting to stay on-task.
Mathematical Concepts	Explanation shows complete understanding of the mathematical concepts used to	Explanation shows substantial understanding of the mathematical concepts used to	Explanation shows some understanding of the mathematical concepts needed to solve the problem(s).
Diagrams and Sketches	Diagrams and/or sketches are clear and greatly add to the reader's understanding of the	Diagrams and/or sketches are clear and easy to understand.	Diagrams and/or sketches are somewhat difficult to understand.

Mathematical Terminology and Notation	Correct terminology and notation are always used, making it easy to understand what was done.	Correct terminology and notation are usually used, making it fairly easy to understand what was done.	Correct terminology and notation are used, but it is sometimes not easy to understand what was done.
Explanation	Explanation is detailed and clear.	Explanation is clear.	Explanation is a little difficult to understand, but includes critical components.

---

1
Little evidence of mathematical reasoning.
Student rarely listens and often \"plays\" with the manipulatives instead of using them as instructed.
Student did not work effectively with others.
Explanation shows very limited understanding of the underlying concepts needed to solve the
Diagrams and/or sketches are difficult to understand or are not used.

There is little use, or a lot of inappropriate use, of terminology and notation.

Explanation is difficult to understand and is missing several components OR was not included.