

Understanding	Accuracy	Communication	Presentation	Total
2	2	2	2	8

2. *School Classroom:* Some of your students are in disagreement about the answer to the following question. Explain how you can use base-ten pieces **or** percent grids to help them with this problem.

*If an amount first increases in value by 50% and then decreases in value by 50%, will it return to its original value or to more or less than its original value?*

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2	a)2 b)2 c)2	2	2	12

4. *Math Concepts:* Model each of the following with your base-ten pieces; sketch the model, label the sketch clearly, and record at least one percent observation about each statement. In each case explain your reasoning.

- a. 70% of the 120 students in the class are women
- b. 10 of the 30 students in the class want to teach middle school
- c. Jane spent \$25 on teaching supplies at the Ed. Center’s 35% off sale.

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6. *Math Concepts:* For each of the following, explain your thinking and include diagrams or sketches of base-ten pieces or percent grids to justify your solution.

- a. If 3% of an amount has a value of \$45, what is the value of 100%?
- b. If 45% of an amount has a value of \$3, what is the value of 100%?
- c. Are part a and part b the same question or different questions? Explain your thinking.