# Task

Mrs. Miller asked 100 fourth graders to name their favorite subject in school. She found that of students named Mathematics, named Science, and the rest named other subjects.

# Part A

Write a fraction with a denominator of 100 that is equivalent to . Explain how the model can be used to show both fractions are equivalent.



Enter your answer and your explanation in the space provided.

# Part B

What part of the students named Math or Science as their favorite subject? Find the sum of the fractions. Explain how you could use the model to solve.

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Enter your answer and your explanation in the space provided.

| Score | Description |
| --- | --- |
| 2 | Student response includes the following 2 elements* Computation Component = 1 point

The student provides the equivalent fraction, * Reasoning Component = 1 point

The student explains how the model can be used to show both fractions are equivalent.Note: The explanation should contain a comparison of the model in tenths to the model in hundredths |
| 1 | Student response includes 1 of the 2 elements.  |
| 0 | Student response is incorrect or irrelevant.  |

# Part A Rubric

# Part B Rubric

| Score | Description |
| --- | --- |
| 2 | Student response includes the following 2 elements* Computation Component = 1 point

The student provides the correct sum, * Reasoning Component = 1 point

The student explains how to use the models to add fractions.Note: Accept valid equations or explanations. |
| 1 | Student response includes 1 of the 2 elements.  |
| 0 | Student response is incorrect or irrelevant.  |