Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Table# \_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_

**10.2A Homework**

*Objective: Evaluating powers with the same base (CCSS: 8.EE.1)*

1. Two students were given the following problem: Simplify m4 ∙ m5

Brenda thought the answer was m9. Matthew thought the answer was m20. Which student is correct? How do you know?

**CLAIM** (Which student is correct?):

**EVIDENCE** (In addition to explaining, show your work on the correct way to simplify m4 ∙ m5

**REASONING** (Summarize in two to three sentences how you know you are correct.)

Simplify. Write your answer as the product of two powers.

2. (3 ∙ 5)63. (8x)6