**BLM 6.PR.8: Poff and Gloff’s Math Homework**

Poff and Gloff are best friends. They even do homework together, but not the same way. In fact, you can say that they do their math homework very differently.

Yesterday, their teacher gave them a math homework sheet with two long columns of numbers and said, “Add each pair of numbers and find the answer for each row.”

Poff and Gloff looked at their homework sheets and made the following statements:

Poff said “I think we start with the left number and add the right one to it.”

“No, Poff,” said Gloff “I think we start with the number in the right column and add the number from the left column to it.”

1. Check Poff’s work for correctness, and use a mathematical expression to represent his work.
2. Check Gloff’s work for correctness, and use a mathematical expression to represent his work.
3. Compare their work. (Did they get the same answer or different answers? How is that possible?)
4. Develop a general equation based on your observations and explain why you think it is so.

**BLM 6.PR.8: Poff and Gloff’s Math Homework (continued)**

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| --- | --- | --- | --- |
| **a** | **b** | **Poff’s Work** | **Gloff’s Work** |
| 2  4  6  8  9  5  14  1  8  12  6 | 9  9  8  5  5  5  3  7  9  1  7 | 2 + 9 = 11  4 + 9 = 13  6 + 8 = 14  8 + 5 = 13  9 + 5 = 14  5 + 5 =10  14 + 3 = 17  1 + 7 = 8  8 + 9 = 17  12 + 1 = 13  8 + 7 = 15 | 9 + 2 = 11  9 + 4 = 13  8 + 6 = 14  5 + 8 = 13  5 + 9 = 14  5 + 5 = 10  3 + 14 = 17  7 + 1 = 8  9 + 8 = 17  1 + 12 = 13  7 + 8 = 15 |