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| **Exploring Properties of Addition and Subtraction** **Behaviours/Strategies** |
| 1. Student turns over a card, but struggles to

explore properties of addition and subtraction(e.g., adding or subtracting zero, commutativity of addition) and does not know how to represent adding or subtracting zero with counters.“How do I show adding zero with counters?” | 1. Student explores properties of addition and

subtraction, but thinks matching expressionsmust have the same numbers in the same order and the same operation(s).“How can 17 – 0 and 15 + 2 match?” | 1. Student explores properties of addition and

subtraction and represents expressions withcounters, but struggles to compare counters. |
| **Observations/Documentation** |
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| 1. Student explores properties of addition and

subtraction, but does not match a card withtwo addends to a card with three addends.“They can’t match. This one has two numbersand that one has three numbers.” | 1. Student explores properties of addition and

subtraction, but does not recognize anypatterns in matching cards.“I don’t see any patterns.” | 1. Student successfully explores properties of

addition and subtraction (e.g., adding orsubtracting zero, commutativity of addition)and recognizes patterns.“It doesn’t matter what order you add thenumbers. Adding or subtracting zero doesn’tmake a difference.” |
| **Observations/Documentation** |
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