

# Master 83: Activity 30 Assessment


## Solving Problems 3

### Conceptual Understanding of Story Problems Behaviours/Strategies

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| 1. Student reads story problem, but is unable to model add-to and take-from situations with concrete materials. | 2. Student models and solves the problem, but cannot use symbols and equations to represent it.<br><br>"The answer is 13. I don't know the number sentence." | 3. Student successfully models and solves the problem and writes an addition sentence, but struggles to relate the addition problem to a subtraction problem.<br><br>"29 + 13 = 42"<br>"It's not a subtraction problem." | 4. Student successfully models and solves the problem and uses symbols and equations to represent it.<br><br>"29 + 13 = 42" "42 - 29 = 13"<br>"His friend gave him 13 marbles." |
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### Observations/Documentation

### Addition Computational Behaviours/Strategies

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| 1. Student models problem with counters, but struggles to coordinate number words with counting actions.<br><br> | 2. Student counts three times to add or subtract quantities.<br><br>"1, 2, 3, ..., 41, 42" counts all<br>"1, 2, 3, ..., 28, 29" counts to remove<br>"1, 2, 3, ..., 12, 13" counts leftover | 3. Student counts on or back with counters to add or subtract quantities.<br><br>"30, 31, 32, ..., 40, 41, 42" | 4. Student uses mental strategies flexibly and accurately to add or subtract quantities.<br><br>"29 and 1 more is 30.<br>30 and 10 more is 40.<br>40 and 2 more is 42.<br>1 + 10 + 2 = 13." |
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### Observations/Documentation