We matched 80% of the coded behaviors and can now move on to the final step of the coding project.

PJC coding is in red.

EAB coding is in blue.

Green highlighted is agreement on part of the coding.

00:36:05 Ankur: **Researcher guidance; communication improvement**

**Researcher guidance; clarifying the problem.**

Michael: **Researcher guidance; working individually**

**Researcher guidance (Clarifying the problem). Informal presentation.**

Jeff: **Working individually**

**Answer checking. (Jeff appears to be copying Michael’s work)**

EAB’s discussion notes:

Ankur: The description states: “ask the question one more time” – Ankur is asking for the problem to be clarified.

Michael: Michael is attempting to verify the question, and he writes on the board to ensure he is interpreting correctly.

Jeff: Jeff appears to be copying the work, and checking it as he writes.

PJC’s discussion notes:

Ankur: Someone off screen asks the researcher to ask the question one more time. Ankur asks about the height, and the researcher agrees with his x-high. The researcher notes Ankur understands. **Researcher guidance; communication improvement I had thought that Ankur was building off Mike’s idea but now I see that he is asking for the question to be clarified and I should have coded the behavior as clarifying the problem.**

Michael: Michael verifies the triangle should be rewritten top to bottom. He begins rewriting the triangle on the board while the researcher finishes the question. **Researcher guidance; working individually I coded this behavior as working individually because he was not discussing what he was writing with everyone but I understand now that this should have coded this behavior as informal presentation because he was sharing his understanding of the question.**

Jeff: Writing on his paper and watching Michael work at the board. **Working individually. I coded this behavior because I thought he was working alone but he was checking the work from the board as he was writing.**

00:36:35 Ankur: **~~Administrative discussion~~ -- Collaboration**

**Checking answer.**

00:36:35 Ankur: Watching Michael. Asks Michael to write (a+b)^n next to the work. **Administrative discussion change to collaboration**

EAB’s discussion notes:

Ankur: Ankur is contributing to Michael’s presentation, checking his work. “write (a+b)^n” This is not a generic statement.

PJC’s discussion notes:

Ankur: Watching Michael. Asks Michael to write (a+b)^n next to the work. **Administrative discussion change to collaboration. I thought this would be a generic statement and coded as collaboration but now I realize that there was math content and it should have been coded as checking answer.**

Continued on next page….

00:37:10 Jeff: **Communication improvement**

**Informal presentation.**

EAB’s discussion notes:

Jeff: Jeff does not appear to be clarifying an explanation, but rather producing a new idea for discussion. He is either answer checking his previous formula, or informally presenting his idea to the group. Because he is leading the group discussion aloud, I will code this as informal presentation.

PJC’s discussion notes:

Jeff: Begins describing the problem in terms of (a+b)^n, but does not manage to work out a formula. **Communication improvement. I coded this originally as communication improvement because I felt that Jeff was building on Mike’s idea but now I see that he was leading the group by sharing his ideas and should have coded it as informal presentation.**

00:37:50 Michael: **Informal presentation**

**Checking answer.**

EAB’s discussion notes:

Jeff: There are two reasons why this could be coded as communication improvement.

1) Jeff is building upon what Michael wrote on the board.

2) Jeff is clarifying his explanation.

This is not really “checking,” and I had originally coded for presenting because his explanation is so long, but it is all a better fit for clarifying.

Michael: Description: “Michael agrees he understands Jeff” – agreement is coded as answer checking. Michael also challenges Jeff’s explanation. He is at the board, writing ideas for presentation, but he does not appear to dominate this segment with presenting.

PJC’s discussion notes:

00:37:50 Michael: Michael agrees he understands Jeff. **Informal presentation. I originally coded this as informal presentation because I though Mike was sharing his ideas with the group but he was just simply agreeing so I should have coded the behavior as checking answer.**

00:39:20 Michael: **Communication improvement**

**Clarifying the problem.**

Romina: **Communication improvement**

**Clarifying the problem.**

EAB’s discussion notes:

Michael and Romina are asking the researcher questions to clarify what problem they should be solving.

PJC’s discussion notes:

Michael: Confused by the question. **Communication improvement**

Romina: Begins explaining the question, interrupted by Jeff who explains n choose any number. **Communication improvement**

**I coded both of these behaviors as communication improvement because I though that they were building on Jeff’s ideas but I realize that they were just trying to clear up what problem to solve and I should have coded both Mike’s and Romina’s behaviors as clarifying the problem.**

00:39:40 Michael: **Informal presentation**

**Checking answer.**

Jeff: **Communication improvement**

**Informal presentation. Checking answer.**

PJC’s discussion notes:

Michael: Studying the board. Michael points out their formula solves for only one of the nCr values, and is different from their list of nCr. **Informal presentation. I coded this as informal presentation because Mike was sharing this information with the group but I should have coded this as checking answer because he was looking at the board and checking their solution.**

Jeff: Asks if any choice would be n choose for any selected r value less than n. Jeff repeats his question after Michael’s statement. **Communication improvement. I thought that this would be communication improvement because Jeff was asking a question but I see that he was sharing the information with the group and I should have coded this behavior as informal presentation.**

00:42:45 Jeff: **Researcher guidance; collaboration**

**Researcher guidance. Informal presentation.**

EAB’s discussion notes:

Notes: Jeff is at the board, acting as the group’s leader through presentation.

PJC’s discussion notes:

Jeff: Researcher asks Jeff to show an addition rule from the fourth to fifth row. He points to verify. Jeff points to 3C1 and 3C2 in response to the researcher’s question.  **Researcher guidance; collaboration. I coded this as collaboration because I thought at first that he was generically collaborating with the group and researcher but now I realize that I should have coded this behavior as informal presentation because Jeff was sharing his ideas.**

00:43:15 Jeff: **Communication improvement**

**Informal presentation.**

EAB’s discussion notes:

Jeff is still acting as ‘the presenter.’

PJC’s discussion notes:

Jeff: Helps complete the researcher’s question: 3C1+3C2=4C2. She then asks 4C2+4C3. Jeff immediately points to the two locations and states five choose... **Communication improvement. I coded this as communication improvement because I thought Jeff was building off the researcher’s idea but because Jeff is sharing this information with the group, I should have coded this behavior as informal presentation.**

00:43:45 Jeff: **Communication improvement**

**Checking answer.**

EAB’s discussion notes:

Jeff is commenting on an answer, requesting an explanation. The effect is shorter/different because there had been no original explanation to clarify.

PJC’s discussion notes:

Jeff: Jeff repeats the question, “why is it five choose three?” **Communication improvement. I coded this as communication improvement because Jeff is was I though Jeff was requesting input when he was actually questioning the accuracy of the answer so I should have coded that behavior Checking Answer.**