Salute

Salute is a classic math game that can be used to develop computational fluency and algebraic thinking for students in grades 1-9.

Original sources: Power of Ten by Trevor Calkins and Box Cars and One-Eyed Jacks resources by Jane Felling and Joanne Currah

Materials needed:

- 1) Deck of cards (jacks, queens, kings removed) with Ace = 1
- 2) three players

Instructions:

- 1) Choose addition or multiplication focus.
- 2) Two players stand facing each other and the third player stands between them.
- 3) The two facing players are each given half a deck of cards and keep them face down in their hands in front of them.
- 4) The third player calls "salute!" and the two players take the top card from their stack and place it facing out on their forehead without looking at it.
- 5) The third player calculates the sum or product and calls it out. The other two players have to figure out what number they have on their forehead.
- 6) Time is provided for each player to come to an answer and then each player explains their answer. (Can choose to not have them orally explain their reasoning every time).
- 7) If you want to have a "game" element, you can add the condition that whoever gets their answer first and explains their reasoning so that it makes sense to their classmates, wins the cards for that round.

Example addition game play:

Player Three says "Salute!"

Player One turns up a 5.

Player Two turns up a 8.

Player Three says "The sum is 13."

Player Two says "8!" and waits for Player One.

Player One count on fingers and says "5!"

Player Two explains, "I know its 8 because I thought 'what plus 5 equals 15 and I knew 5+5 is 10 and I needed three more so its 8 (5 and 3)"

Player One explains, "I know its 5 because I say they had 9 and the answer is 13 so I counted on – 9, 10, 11, 12, 13 on my fingers and that was five fingers."



After a game, the teacher can ask questions to promote thinking, computational fluency and flexibility and reflection such as:

- a. If these two numbers came up, what different strategies could I use to add or multiply them?
- b. If I needed to figure out 8 + ? = 13, what strategies could I use? What do you know already that could help you with this?
- c. How does knowing about addition help you think about subtraction?
- d. How does knowing about multiplication help you think about division?

Note: Model and practice not using mathematical vocabulary during the game. The "sum" is, the "product" is, the two factors when multiplied make... etc.

BC Mathematics Curricular Content and Competencies:

- computational fluency develops from a strong sense of number
- addition facts to 20
- relationship between addition and subtraction
- multiplication facts to 100
- relationship between multiplication and division
- missing part/variable equations algebraic thinking
- develop mental math strategies
- develop, demonstrate and apply mathematical understanding through play
- use mathematical vocabulary and language
- explain and justify mathematical ideas and decisions
- connect mathematical concepts to each other

Different ways to play:

The game can be adapted for students developing their fluency in addition by using ten frame cards or by limiting the range of cards to 1-5. For students with developing fluency in multiplication, the range of cards can be limited to 1-5. For students in grades 8 and 9, a fraction deck of cards could be created to use. In grades 6-9, students can practice operations with integers by having the black cards be positive integers and the red cards be negative integers.

