Stat-zee

In this card game, compete with others to be the first to check off the mean, median, mode, and range.

Strands:

Number & Quantity	X
Algebra	
Functions	
Geometry	
Statistics & Probability	X

Materials Needed:
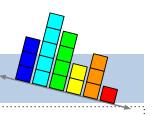- UNO® Cards, 1 deck
- *Stat-zee* Score Sheet, 1 per group of 4 players
- Pencil, 1 per player
- Scrap paper

Where:

Outside	
Inside	X
On-line	
On-site	

Set-Up:
- Use a deck of UNO® cards. Remove all non-numeric cards such as the Skip, Reverse, Wild, etc.
- Choose a dealer.
- Play starts with the player to the left of the dealer.

Object of the Game: Determine the mean, median, mode, and range of a set of numbers. Determine new statistics as the set of numbers changes.

Playing the Game:
1. Use all 7 cards in your hand to find a mean, median, mode, or range that matches the target number for the round (see Step 2d below). In four rounds, you must complete all four categories, in any order.
2. Dealer:
   a. Deal 7 cards to each player.
   b. Place the remaining cards in a pile in the middle of the playing surface.
   c. Flip the top card face up next to the deck to create a discard pile.
   d. Flip up the next card to determine the "target number" for the round.
   e. The player to the left of the dealer plays first.
3. On your turn:
   a. Pick up a card from the top of either the discard pile or the deck.
   b. If the mean, median, mode, or range of 7 of your cards matches the target number, lay down those cards and show which statistic matches the target number. Check off the statistics category you completed on the *Stat-zee* Score Sheet. Place a card on the discard pile.
   c. If you cannot find a statistic to match the target number, discard the least helpful card in your hand.
   d. Play moves to the left.
4. If a player lays down 7 cards:
   a. The player picks up 7 new cards and replaces the target number using the top card from the deck.
   b. All other players keep their hand but change their goal to the new target number.

To Win: The first player to check off all four statistics is the winner.

Stat-zee Score Sheet

Players / Statistics	Points				
Mean	35				
Median	20				
Mode	25				
Range	20				
Total Points	100 Possible				

Think About It:
1. What are strategies you used to complete your checklist?
2. Which of the statistics was the most challenging to get?

Variations:

Play Collaboratively: Players play with their cards face up on the table and work together to complete the *Stat-zee* Score Sheet checklist.

Play with More or Fewer Cards: Deal an even number of cards. The median is no longer the middle card in this case, increasing the challenge.

Play with Dice: Play similarly to Yahtzee®. Roll a die to determine the target number. Roll five dice to try to get a mean, median, mode, or range that matches the target number. Reroll all or some of the dice at most 2 times as needed. Use the *Stat-zee* Scoring Sheet for this variation, too.

Helpful Hints:
- If you are unable to satisfy one of the statistics categories with your hand and given target number, then test the other categories to see if you can check a different category off of your list.

Stat-zee Score Sheet

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Statistics					
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Median	20				
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Cut the cards apart. Provide one to each group of 4 players.