Math from Home

June 8 - 12

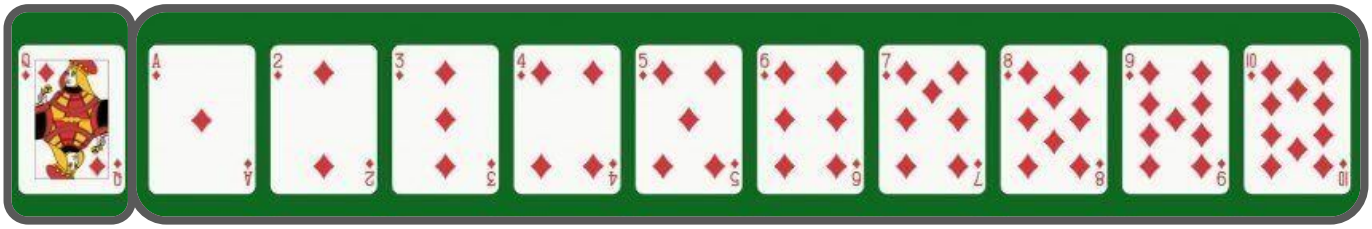
In Between Game

Materials: 1 set of cards from 0-10 (queen being 0), 20 tokens per player (can be macaroni, cereal, cut pieces of paper)

Getting Started: Player 1 is the dealer. The turn over two cards. Player 2 decides if the third card will be “In Between”. Player 2 will put an amount of tokens out based on how possible she thinks the 3rd card will be “In Between”. If the chances are high she may put 2-3 tokens out. If she is right, she keeps her tokens and Player 1 gives the same amount of tokens. If she is wrong Player 1 takes her tokens.

Video example:https://youtu.be/qQrQt-2-mA0

Optional game board



10	11	12	13	14
15	16	17	18	19
20	21	22	23	24
25	26	27	28	29
30	31	32	33	34
35	36	37	38	39
40	41	42	43	44
45	46	47	48	49

Tower to 40

Materials:A deck of cards and two game boards that look similar to the board on the left.

Getting Started: Player 1 turns two cards over and decides which operation they will apply to the cards (addition/subtraction/multiplication or division). Once they have the answer they cross that number off their board. If they cannot use the cards they can keep them and pass their turn. At the end of the deck you would shuffle and go through the deck one more time.

The player with the most numbers crossed off their board wins.

Video example: https://youtu.be/Om10YjSQUzs

Good questions you can ask while playing In Between:

- How many chance have you got of getting a card in-between _ and _? How many chances have you got of not getting a card in between?
- Can you describe your chance of getting an in-between card? Why?
- Why did you choose to play - counters?

Good questions you can ask while playing Tower to 40:

- What other number could you make?
- Explain to me how you got -?
- What if you use multiplication or subtraction?
- Offer suggestions when students need help but try NOT to give the answer

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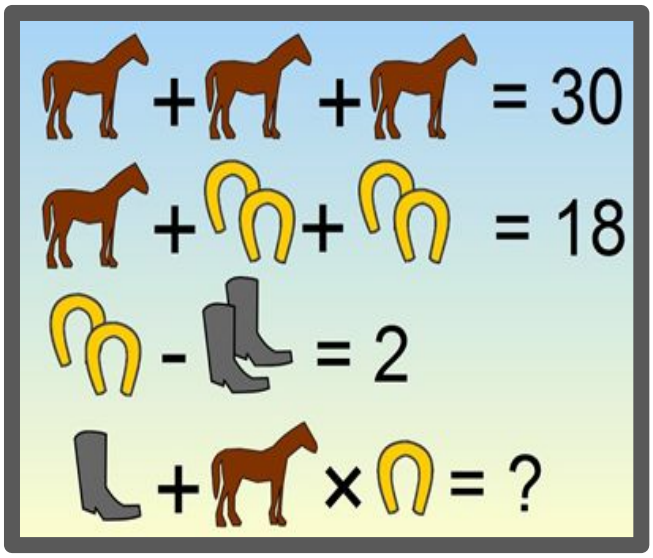
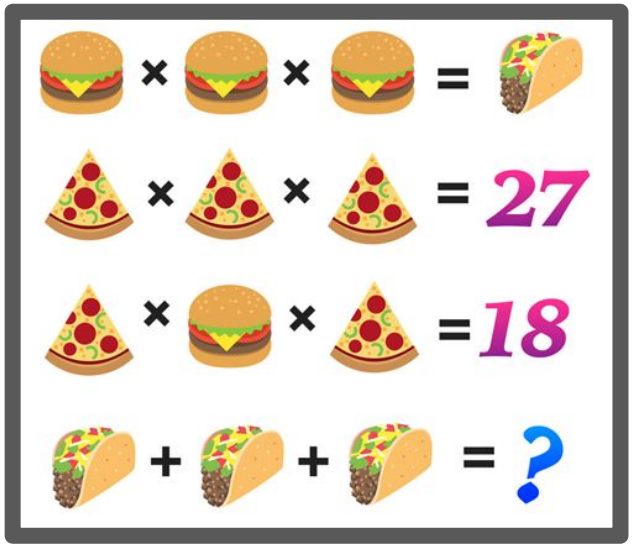
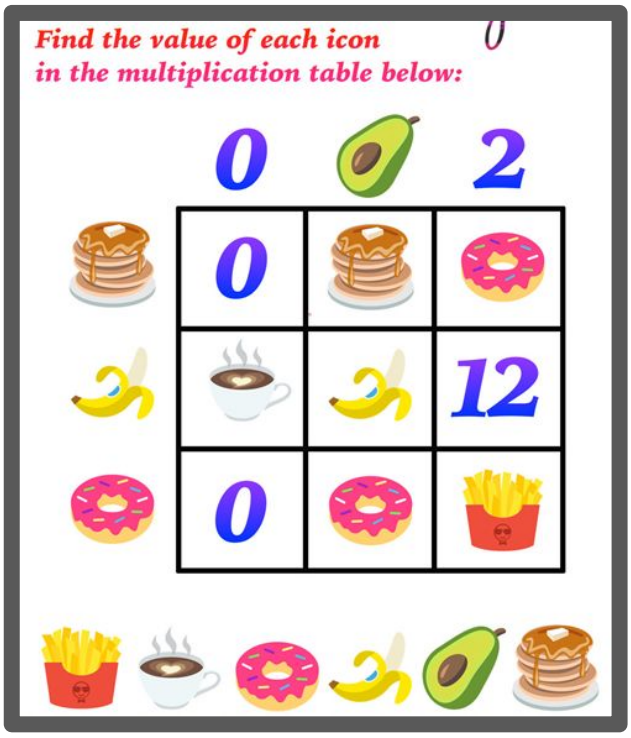
Can you solve these? Look closely!







MAGIC BIRTHDAY TRICK

Enter the number 7
Multiply by the month of your birth
Subtract 1
Multiply by 13
Add the day of your birth
Add 3
Multiply by 11
Subtract the month of your birth
Subtract the day of your birth
Divide by 10
Add 11
Divide by 100

Ta da! Magic, right ;)

Math Coach Message:
Were you intrigued to solve the problems above? Think for a moment: what about these problems made you curious to solve them? Would they have been as engaging if they were written out as an algebraic equation in a textbook? Math is about figuring out patterns and finding the beauty in them. It is NOT about memorizing a bunch of steps and rules. Can you create your own puzzle?