Monday, April 29, 2019

- Warm-up

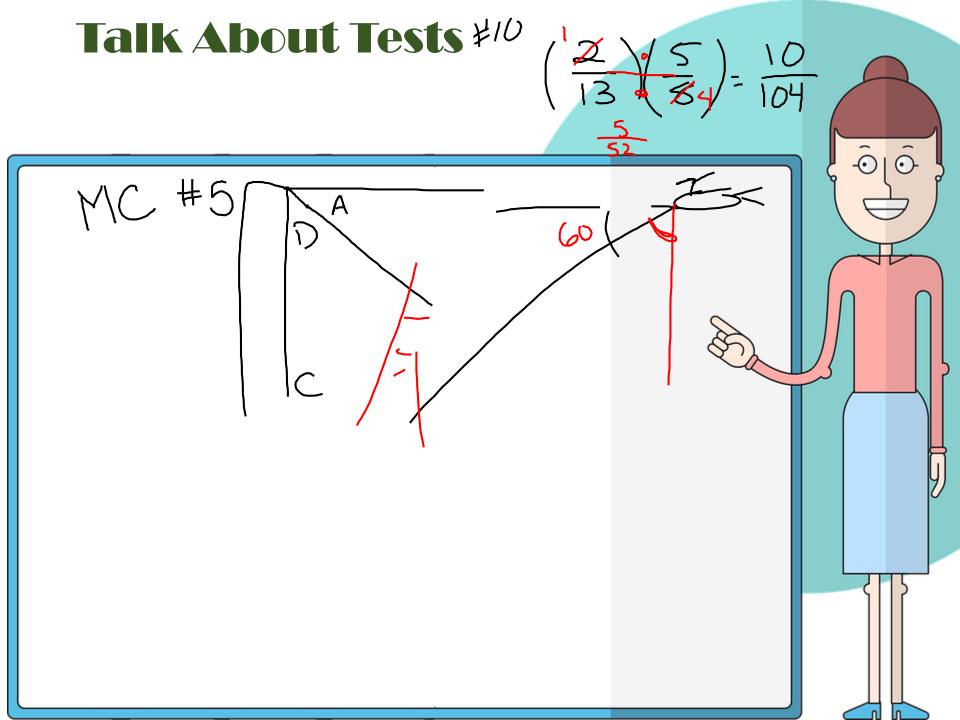
• If I flip two coins – what are all possible outcomes?
$$2H$$
, $H3$, $2H$, $T3$, $2H$, $T3$, $2H$, $T3$

- Go over tests
- Sample Space & Frequency Tables

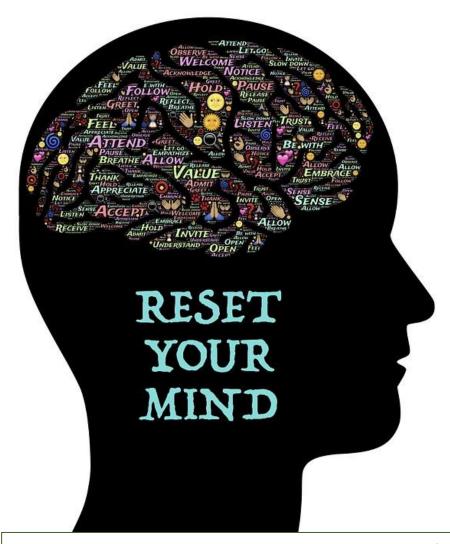
Objectives

Content: I will create and use sample spaces to organize probability and outcomes.

Social: I will brainstorm with my group and create sample spaces.







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BlockMath 2 Unit 7

Probability



Go over Tests Basic Probability Dice Sample Space 6

Probability Stations

30

7

1 2-way Tables AND/OR Conditionals

2-way Tables Independence & Mutually Exclusive

Probability Formulas Indep & M.E.

Practice

29

Simulations

8

Probability Application (games)

9

2

Review for Test

10

3

Unit 7 Test

13

NO SCHOOL Graduation

Quiz

14

Review for Finals

15

Finals

Review for

16

Final Exam 17 Send-Off for Summer

I never lose...

either I win or I

learn.







Reminder: How to Calculate Probability P(A) = number of favorable outcomes number of total outcomes P(5 on sie)= - 6

Keep in fraction
but ushally simplify

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Some Definitions

- Sample Space all outcomes listed ex) 2 cons [-vil Dic -> 1,2,3,4,5,6 2H,73 2T,H]
- · [Frequency Table organized list of outcomes & how many times they happen
- · Histogram Graph of Frequency table

 Quantitative

om Some

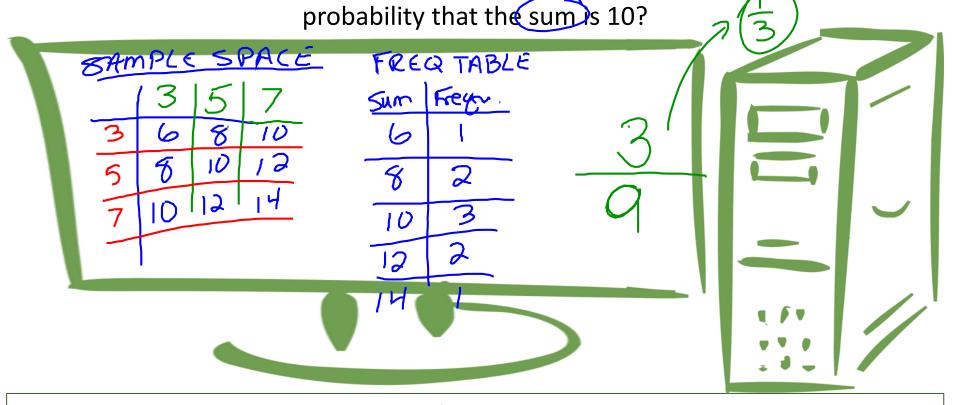
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Using Sample Space

When a button is pressed, a computer program outputs a random odd number greater than 1 and less than 9. You press the button twice. What is the



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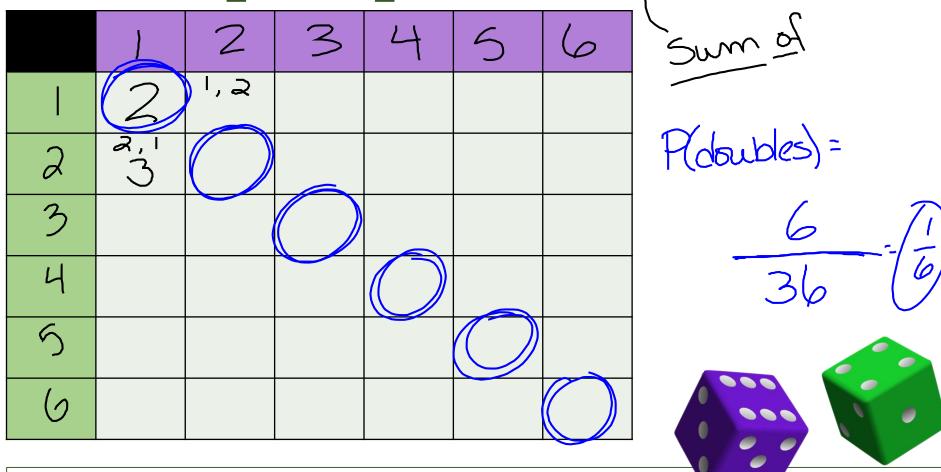
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Dice Trivia Pips



Sample Space for, 2 dice



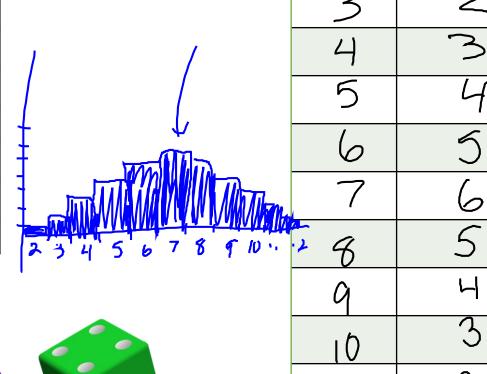
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Frequency Table for sum of 2 dice

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	1	8	9	10
5	6	/1/	8	9	10	11
6	7//	8	9	10	11	12



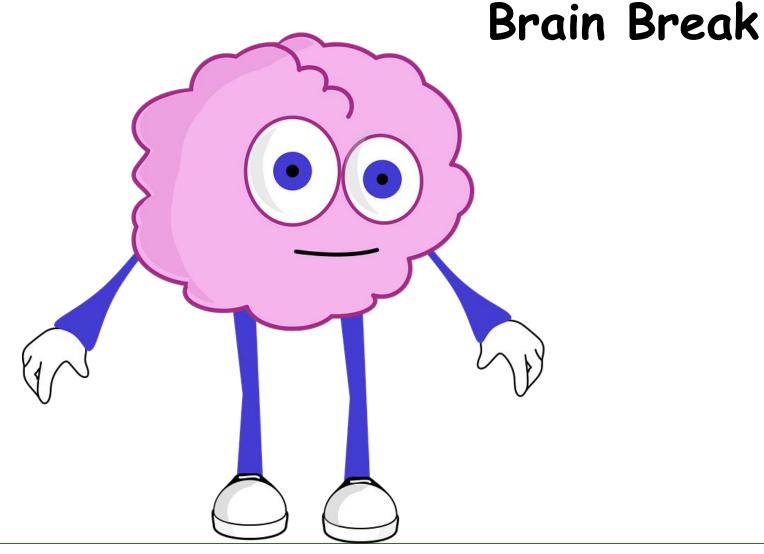
Sum

Frequency



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Card Trivia not part of Joke v

fice cards (oursed cards



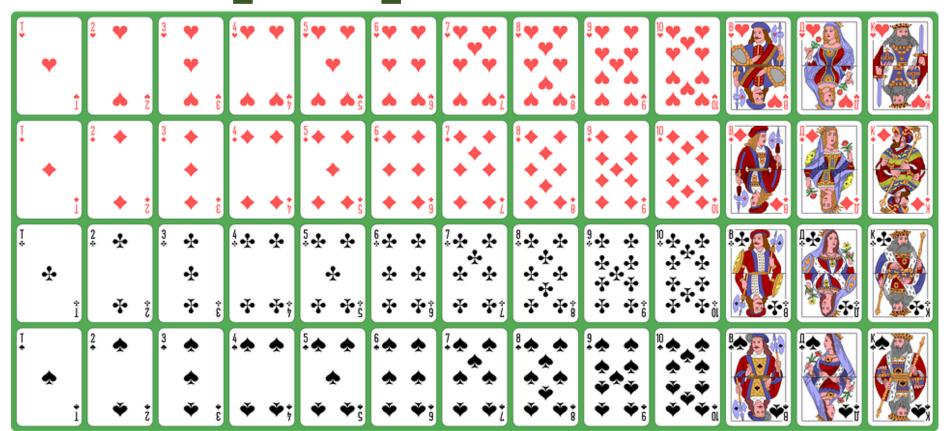
52 (ards in a deck Spadus Clubs Hearts Diamonds "I Face (ards" — Queen King

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Sample Space for cards



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Card Probabilities

- A card is drawn from a well shuffled pack of 52 cards. 3 cares in each
 - P(2 of spades): 52
 - P(jack) = $\frac{4}{52} = \frac{1}{13}$
 - P(red king) $\frac{2}{52}$ = $\frac{1}{26}$

 - P(diamond) $\frac{13}{52}$ P(king or queen) = $\frac{13}{52}$ = $\frac{11}{26}$ = $\frac{2}{13}$
 - P(non-face card) = $\frac{52}{52} \frac{12}{52} = \frac{40}{52} : \frac{10}{13}$
 - P(black card) = $\frac{26}{52}$: $\frac{1}{2}$ P(non-ace)

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Exit Slip

A fair coin is tossed four times. What is the probability of getting at least one 'Tail'? [With

calculator]

/ A \	-	110
		$^{\prime}16$
(A)	- 1	10

Show your sample space

Count the total outcomes

Count the favorable outcomes

Write your probability

Choose your answer

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