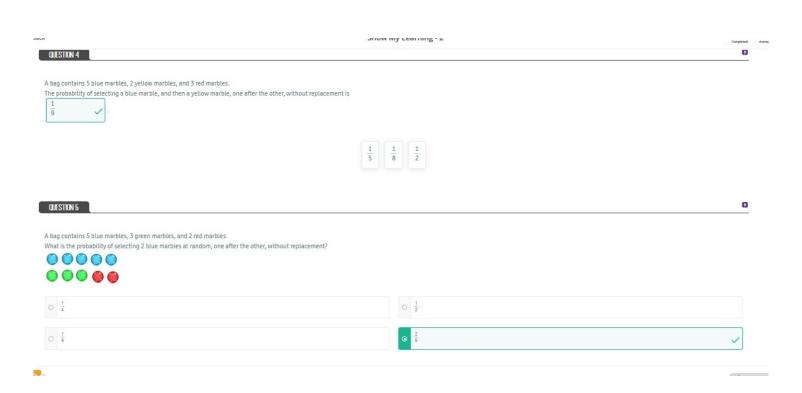
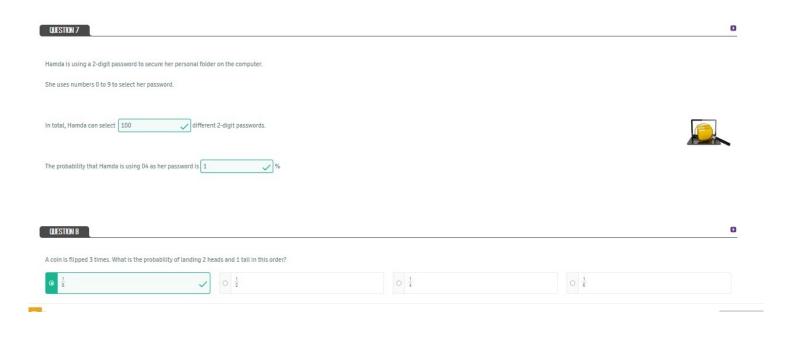
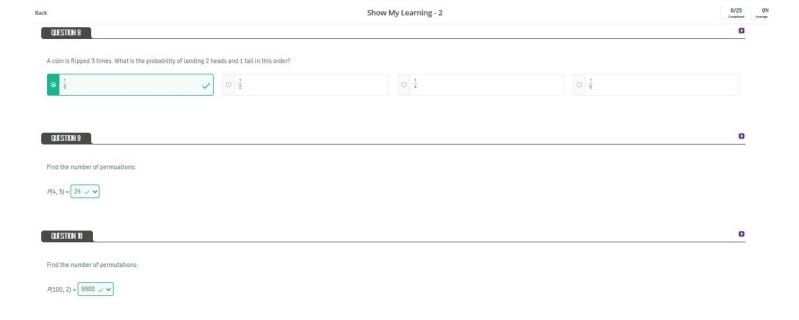
ULISTIAN I
A bag contains 5 blue marbles, 2 yellow marbles, and 3 red marbles.  The probability of selecting a red marble, and then another red marble at random, one after the other without replacement is $\frac{1}{15} \checkmark \checkmark$ .
QUESTION 2
A bag contains 5 blue marbles, 2 yellow marbles, and 3 red marbles.  The probability of selecting a red marble, and then a yellow marble at random, one after the other without replacement is   1 15
QUESTION 3
A bag contains 5 blue marbles, 2 yellow marbles, and 3 red marbles.
The probability of selecting a blue marble, and then a red marble at random, one after the other without replacement is $\frac{1}{6}$ .







	SHOW MY LEGITHING - 4	Completed
Hassan organizes his first 3 after school classes.		
He has 5 different classes to choose from, and the classes will not repeated.		
Therefore, Hassan has 60 different arrangements to	o organize his after school classes.	
QUESTION 12		0
Latifa organizes her first three after school clubs.		
Her choices are running, arts and tennis.		
There are 6 different arrangements for Latifa to o	organize her after school clubs, of three classes.	
QUESTION 13		0





QUESTION B

Fatema is making an arrangement using one balloon, one flower and one chocolate bar from the available options below.

Fatema can make 50 different arrangements.

The probability that Fatema will choose a pink balloon, a rose, and a white chocolate bar is 2

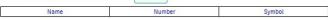
Balloon	Flower	Chocolate bar
Red	<u> </u>	Dark chocolate
White	Rose	Milk chocolate
Pink Blue Green	Tulip	Chocolate with strawberries
Blue	Tutip	Chocolate with nuts
Green		White chocolate

OUESTION 20

Khalifa can make a screen name for his video game character by choosing a name, then a number, then a symbol from the available choices below.

Khalifa has 48 🗸 🕶 choices for the screen name.

The probability that Khalifa chooses Strong115 is 1/48 VV





◀ My Exit Tic

D

Khalifa can make a screen name for his video game character by choosing a name, then a number, then a symbol from the available choices below. Khalifa has 48 🗸 🗸 choices for the screen name.

The probability that Khalifa chooses Strong115 is  $\begin{bmatrix} \frac{1}{48} & \checkmark & \checkmark \end{bmatrix}$ 

Name	Number	Symbol
Hero	11	-
Smart	12	5
Strong	13	
Fast	14	@

## QUESTION 21

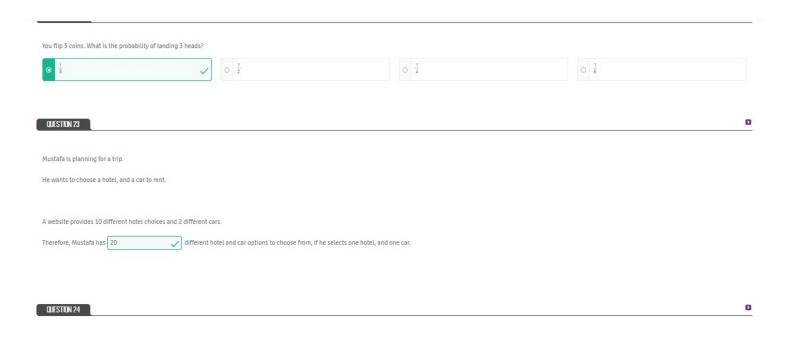
Ali can make a screen name for his video game character by choosing a name, then a number, then a symbol from the available choices below.

In total, Ali has  $60 \checkmark \checkmark$  choices for the screen name.

The probability that Ali chooses Hero12@ is  $\frac{1}{60} \checkmark \checkmark$ .

Name	Number	Symbol
Hero	11	
Smart	12	S
Strong Fast	13	!
		@
King	14	

0



Abdulla has 5 shirts and 5 ties as shown below.

He can make  $25 \checkmark \checkmark$  shirt and tie outfits if he wants to select one shirt and one tie.

The probability that Abdulla chooses a white shirt and a gray tie is  $\begin{bmatrix} \frac{1}{25} & \checkmark & \checkmark \end{bmatrix}$ 



Shirt	Tie
Black	Red
White	Blue
Red	Brown
Green	Gray
Blue	navv

QUESTION 25

0

In total, there are 12  $\checkmark$  possible outcomes for flipping a coin, and rolling a number cube.

The probability of flipping a heads, and rolling a 6 is  $\boxed{\frac{1}{12} \ \checkmark \ \blacktriangledown}$ 



QUESTION 26

D



QUESTION 28	c
The probability of obtaining 3 tails and one head in this order, when flipping 4 coins is $\begin{bmatrix} \frac{1}{16} \end{bmatrix}$ .	
$\begin{array}{ c c c c c }\hline \frac{1}{3} & \frac{1}{4} & \frac{1}{2} \\ \hline \end{array}$	
QUESTION 29	c
A number cube is rolled 3 times.  In total, there are 216 possible outcomes.	
The probability of rolling a 6 three times is $\boxed{\frac{1}{216}}$ .	
QUESTION 30	

Fatema is making an arrangement using one bal	lloon, one flower and one chocolat	e bar from the available options below.

Fatema can make 20 different arrangements.

The probability that Fatema will choose a red balloon, a rose, and a dark chocolate bar is 5

Balloon	Flower	Chocolate bar
		Dark chocolate
Pad	Pore	Milk chocolate
Red White	Rose Tulip	Chocolate with strawberries
White		Chocolate with nuts
		White chocolate

## QUESTION 31

Khalifa is shopping for a new smartphone. He has 3 decisions to make about his new phone - the quality, color and data storage capacity. The choices are listed.

Quality: new or used Color: black, white, silver, pink, or navy Data storage capacity: 64 GB, 128 GB, 256 GB, or 512 GB

In total, Khalifa has  $\boxed{40 \checkmark \checkmark}$  different phone options to choose from.

The probability of choosing a new, navy phone with 64 GB is  $\frac{1}{40} \checkmark \checkmark$ 

0

DIESTION 34

When you roll 2 number cubes, there are  $36 \checkmark \checkmark$  possible outcomes. The probability of rolling a 6, followed by another 6 is  $\frac{1}{36} \checkmark \checkmark$ .

D

D

D

Hani has 8 shirts and 5 ties as listed below. Hani will choose one shirt and one tie.

In total, he has  $\boxed{40 \checkmark \checkmark}$  possible shirt and tie choices, given Hani will choose one shirt and one tie.

The probability that Hani chooses a white shirt and a tie is

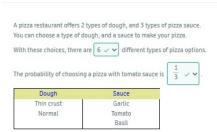
1		
8	~	•

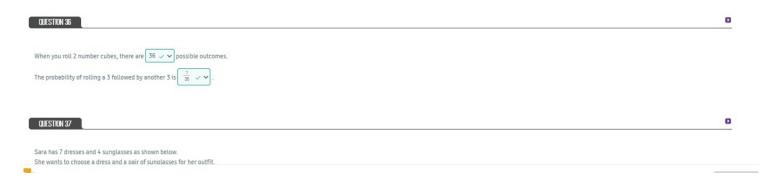
Snirt	lie
Black	
White	Blue
Red	Gray
Brown	Brown
Silver	Red
Green	Green
Navy	Gleen
Blue	

## QUESTION 35

0

A pizza restaurant offers 2 types of dough, and 3 types of pizza sauce. You can choose a type of dough, and a sauce to make your pizza.





D

Sara has 7 dresses and 4 sunglasses as shown below.

She wants to choose a dress and a pair of sunglasses for her outfit.

In total, Sara has  $28 \checkmark \checkmark$  different dresses, and sunglasses outfits to choose from.

The probability that Sara chooses a black dress and black sunglasses is



Dress	Sunglasses
Black	
White	Black
Red	White
Pink	Brown
Purple	Pink
Blue	FIIIK
Yellow	

QUESTION 38

0

Maha has 6 dresses and 3 sunglasses as shown in the table.

Dress Black Sunglasses

Maha has 6 dresses and 3 sunglasses as shown in the table.

She wants to choose a dress and a pair of sunglasses for her outfit.

In total, she has  $18 \checkmark \checkmark$  possible dresses and sunglasses outfits.

The probability that Maha chooses a white dress and pink sunglassess is  $\left[\begin{array}{c} 1 \\ 18 \end{array}\right.$ 



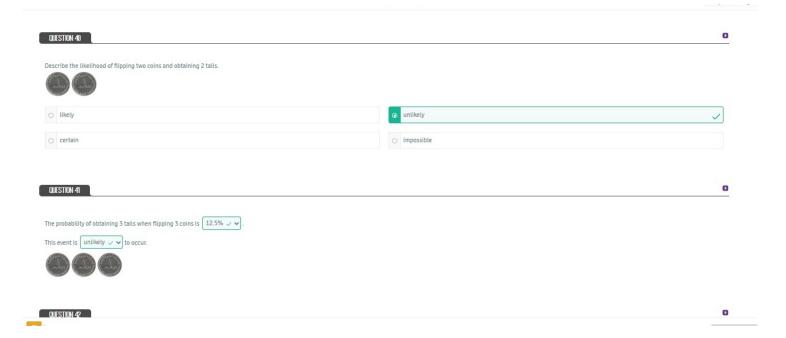
D	Constance
Dress	Sunglasses
Black	
White	Black
Red	White
Pink	Pink
Purple	PITIK
Blue	

0 QUESTION 39

The probability of obtaining 3 heads when flipping 3 coins is  $\begin{bmatrix} \frac{1}{8} & \checkmark & \checkmark \end{bmatrix}$ 



D QUESTION 40



OUESTION 43		0
Gr Malicana		

Hamad is planning for a trip.

He will choose a hotel, and a car to rent.

The table shows a list of 10 different hotel options, and 5 different car options that Hamad will choose from.

In total, Hamad has 50 possible hotel and car choices.

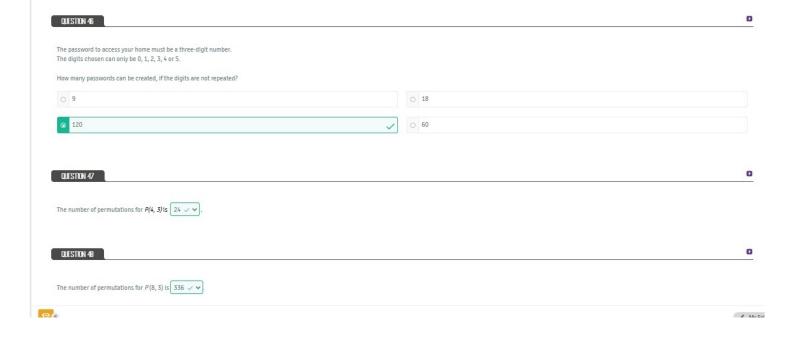
The probability that Hamad will choose Hotel M and Car J from the available choices is 2 %

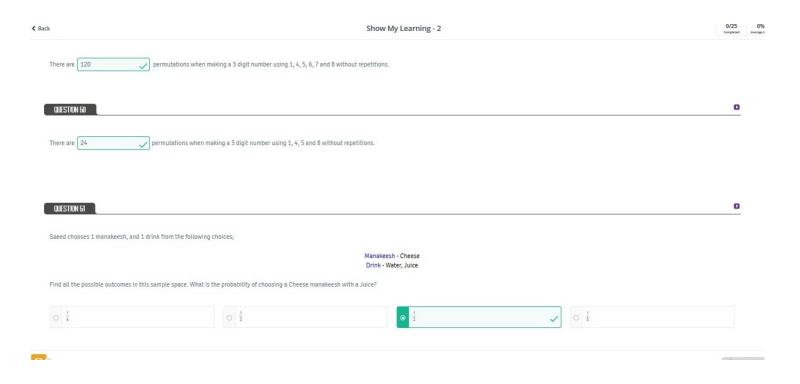
Hotel	Car
Hotel A	Car B
Hotel C	Car D
Hotel E	Car F
Hotel G	Car H
Hotel I	CarJ
Hotel K	
Hotel M	
Hotel O	
Hotel Q	
Hotel S	

OUESTION 44

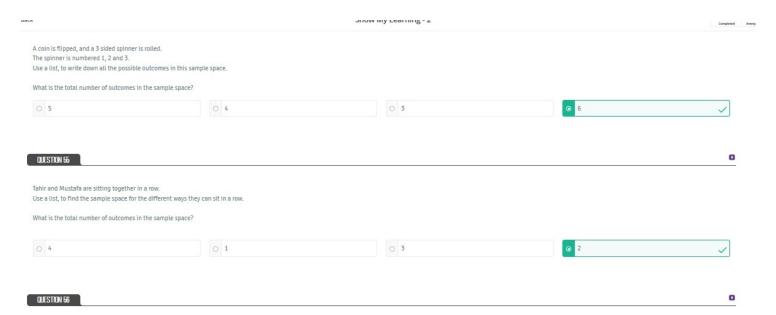
ck	Show My Learning - 2	Completed Avera
Mustafa is planning for a trip. He chooses a hotel, and a car to rent.	Hotels choices City Hotel	Car choices Sports Car
A website provides 5 different hotel choices, and 2 different cars.  In total, Mustafa has 10	Family Hotel Park Hotel  Amusement Park Hotel  Beach Hotel	Family Car
The probability that Mustafa will choose City Hotel and a Sports Car from the available choices is 10	<b>✓</b> ] %.	
QUESTION 46		0
The number of permutations for P (8, 2) is $\boxed{ 56 \ \checkmark \ \checkmark }$ .		
QUESTION 46		0

The password to access your home must be a three-digit number. The digits chosen can only be 0, 1, 2, 3, 4 or 5.



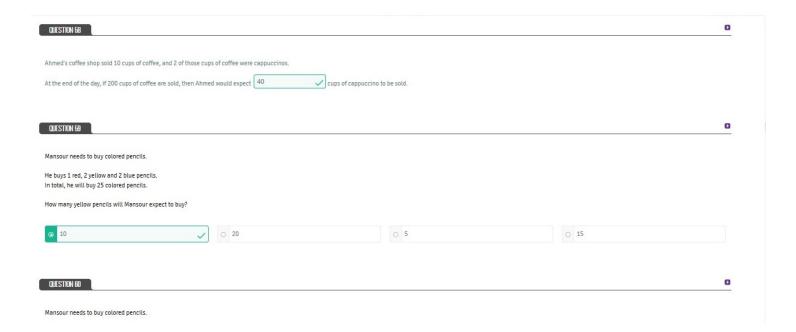


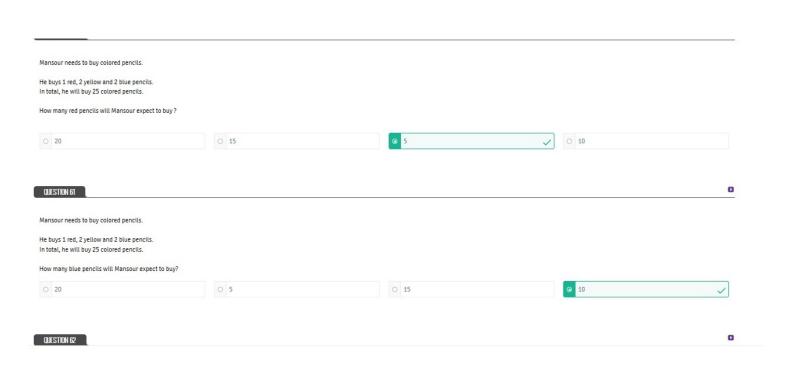
	,		Completed
lima chooses 1 pizza and 1 drink from the following choices;			
nd all the possible outcomes in this sample space. What is the probability of Halima choosin	Pizza - Cheese or Spicy Drink - Milkshake, Juice or Cola g a Spicy pizza with a Cola?		
1 5	⊚ 1/5		~
) 1/4	O 1/3		
4	0 3		
<u> </u>	0 3		
	0 3		0
JUESTION 68	U 3		O
LUESTION 68	Pizza - Cheese or Spicy Drink - Milkshake or Cola		O
tistivities  and 1 drink from the following choices;  a list, to write down all the possible outcomes in this sample space.  lat is the total number of outcomes in the sample space?	Pizza - Cheese or Spicy		0
an chooses 1 pizza and 1 drink from the following choices; a list, to write down all the possible outcomes in this sample space.	Pizza - Cheese or Spicy	O 3	D

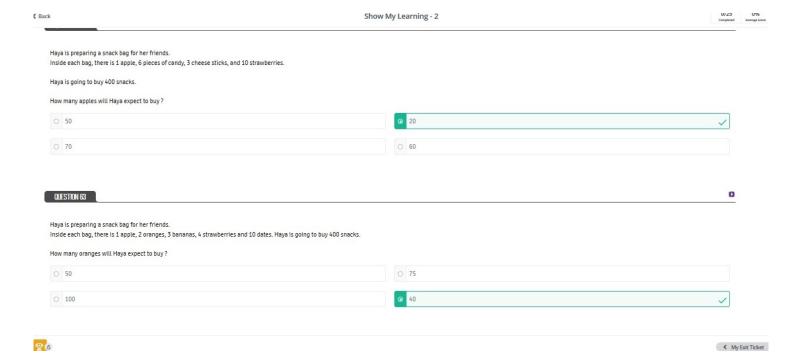


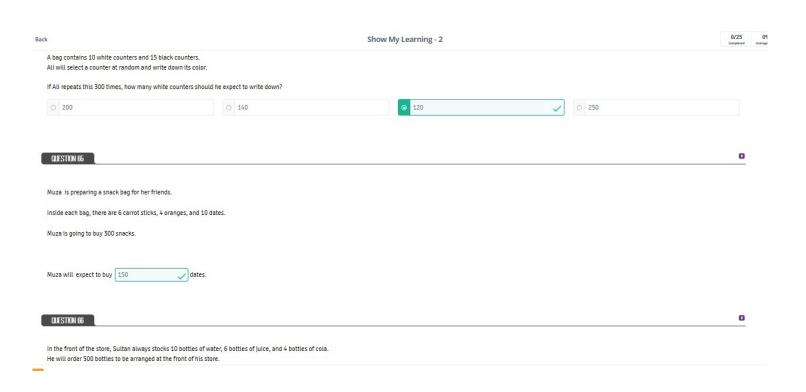
Sheikha is at the beach collecting sea shells. She collects 12 brown, 9 green, and 4 sea shells.

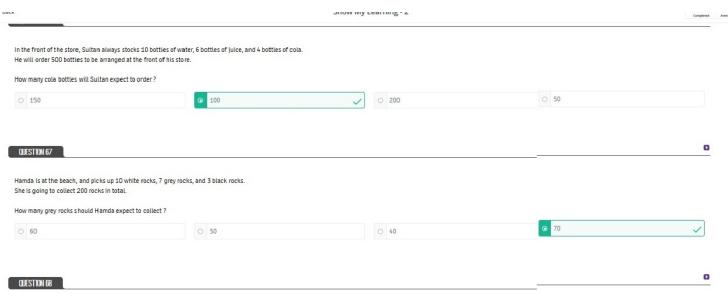
ack	Show My Learning - 2	0/25 Corpletes
Sheikha is at the beach collecting sea shells. She collects 12 brown, 9 green,	and 4 sea shells.	
She plans to collect 500 sea shells, so she can share them with all her friends	s.	
Sheikha would expect to collect 240 vbrown sea shells.		
	100 150 500	
QUESTION 67		0
A small cafe sold 80 cups of tea in a day, and 32 of those cups of tea were gree At the end of the week, if 160 cups of tea are sold in two days, then we expect		
	112 80 32	



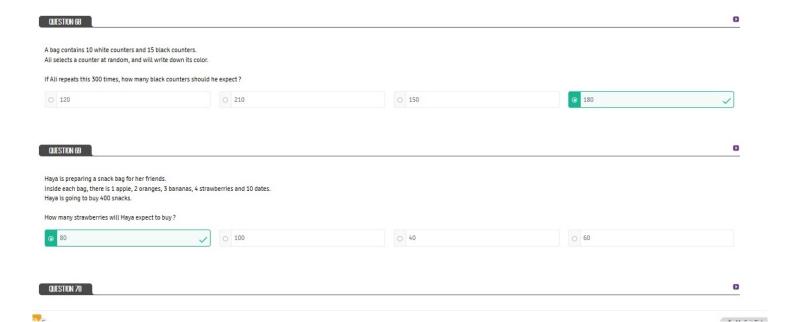


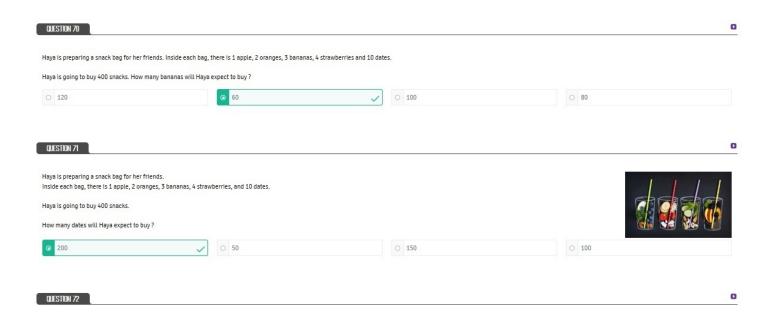


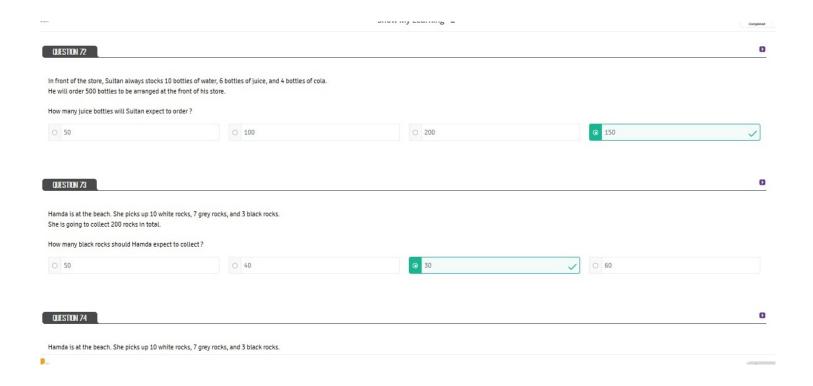


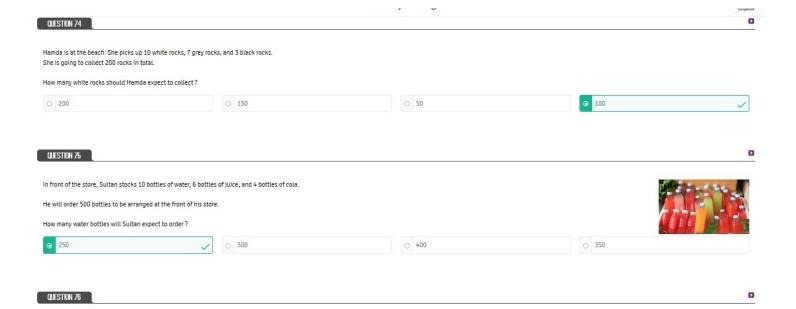


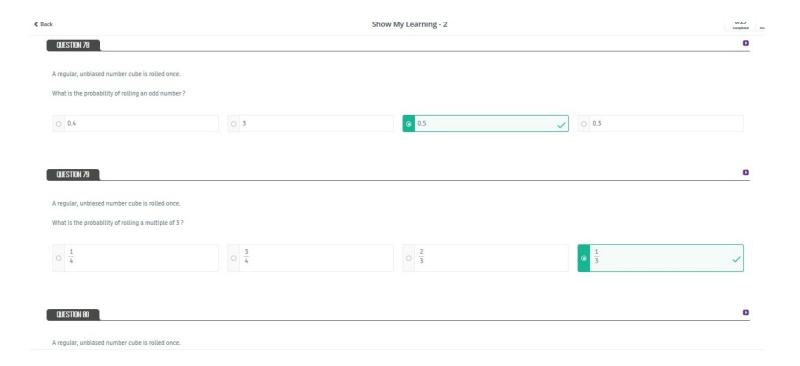
A bag contains 10 white counters and 15 black counters.
Ali selects a counter at random, and will write down its color.

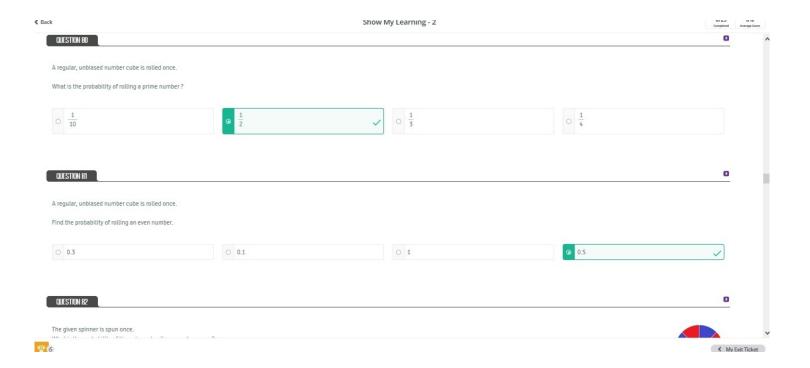


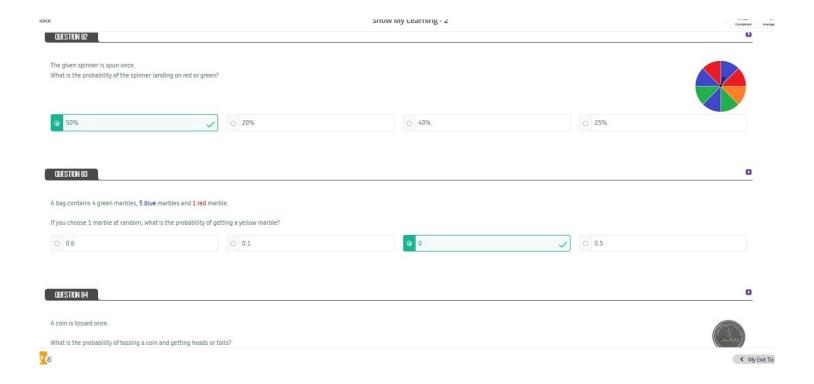


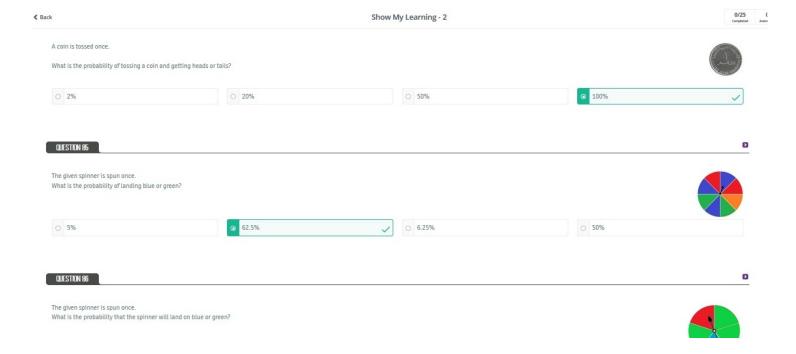


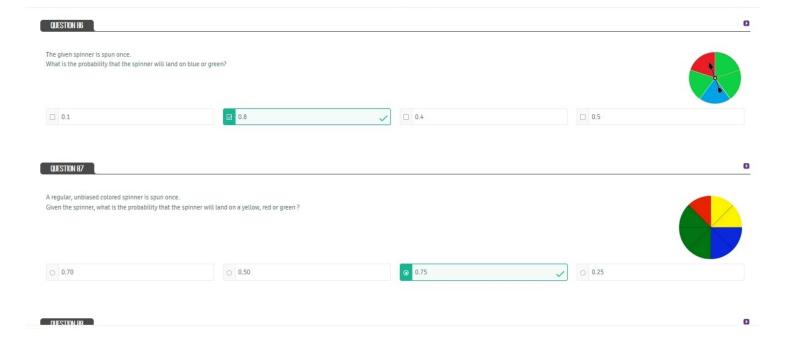


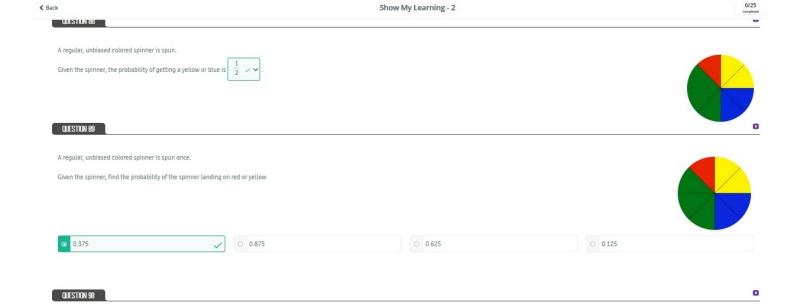


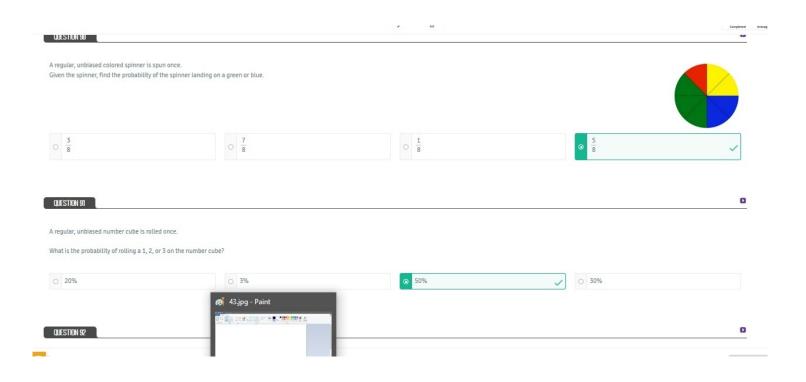


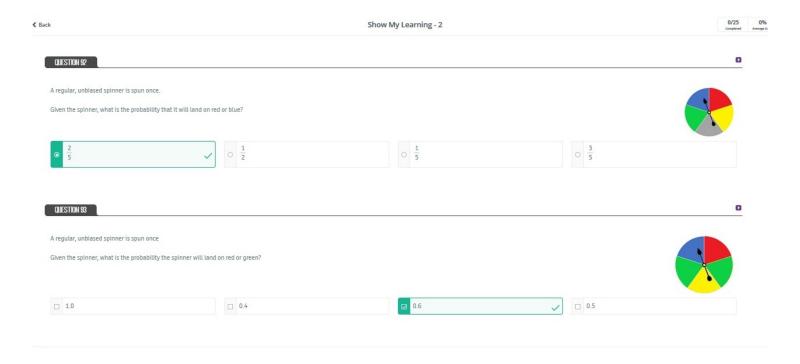


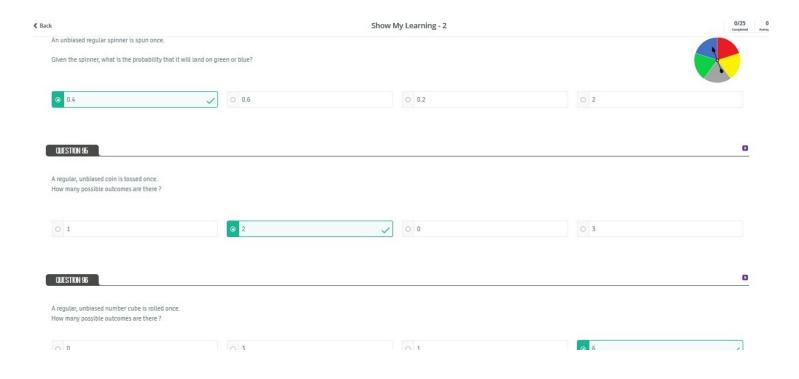


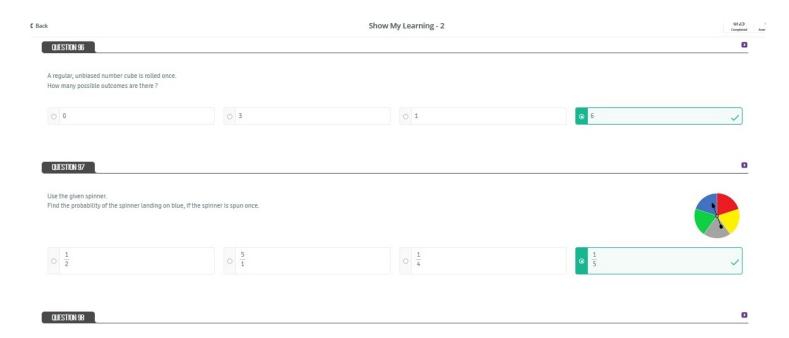


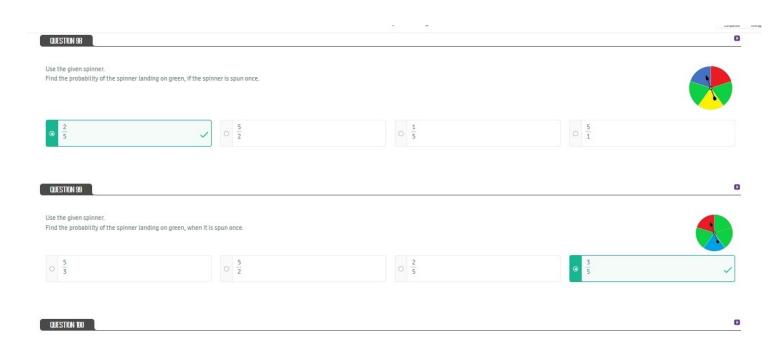


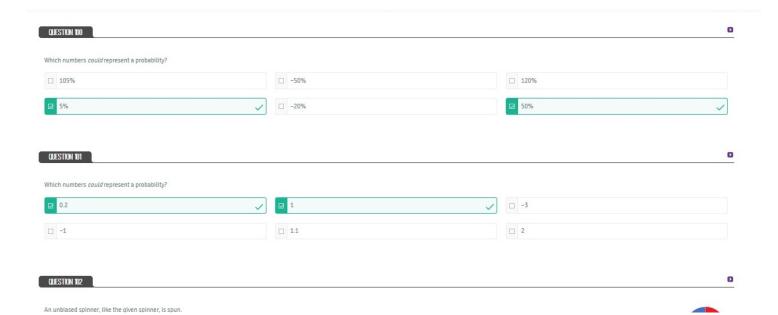


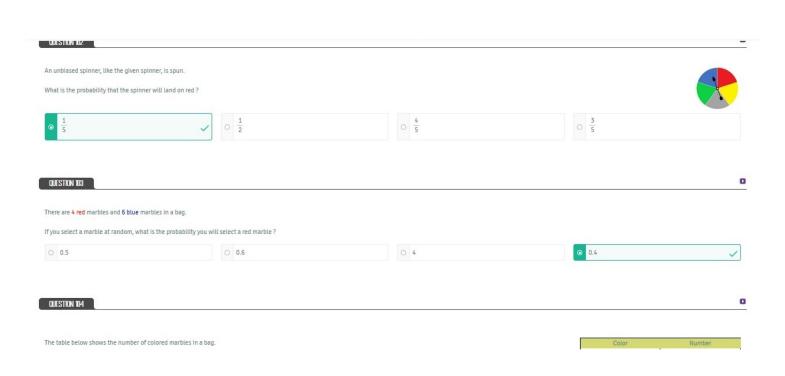






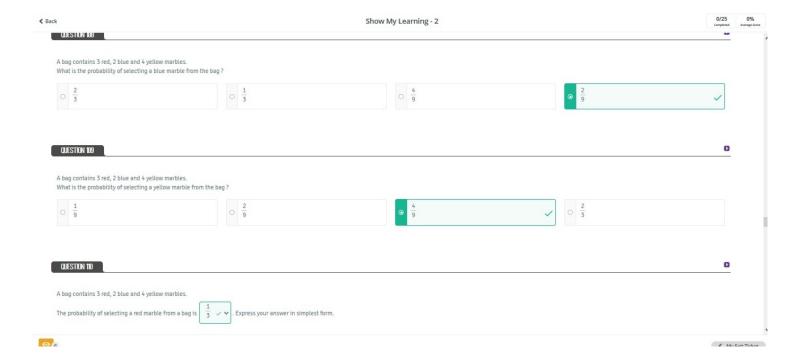


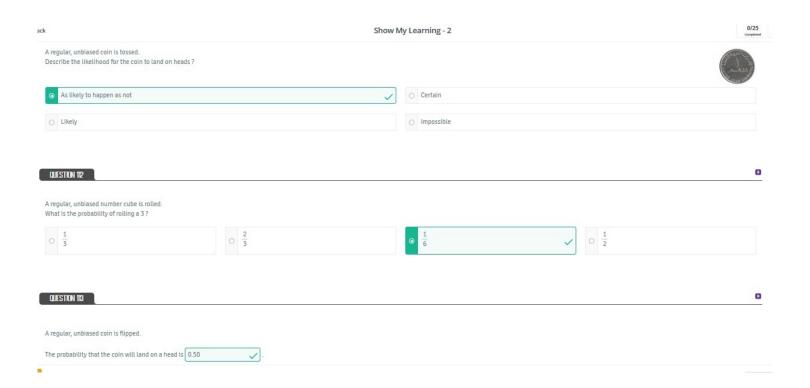


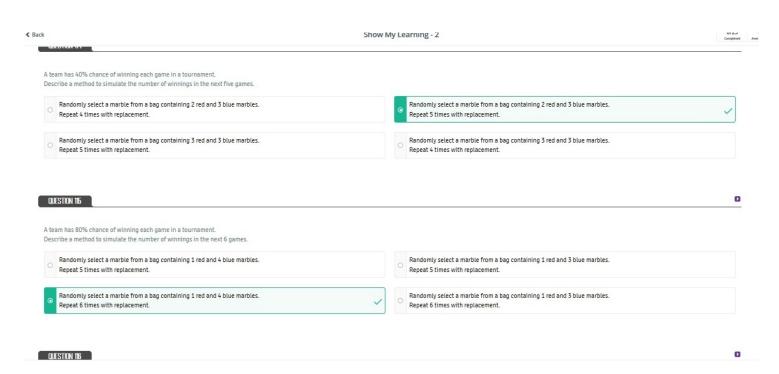


QUESTION 104				0
The table below shows the number of colored marbles in a bag What is the probability of selecting an orange colored marble?			Color Blue Green Orange	Number 6 3
	□ 3 4	□ <del>5</del> 6	Red	6
QUESTION 106				0
A regular unbiased number cube is rolled. Find the probability of rolling a 5.	0 5	O 5/6	$\bigcirc$ $\frac{1}{3}$	
QUESTION DG				0

ck		Show My Learning - 2		U/ZD Completes
The table below shows the number of colored marbles in a bag.  What is the probability of selecting a red colored marble?			Color Blue	Number 4
			Green	5
			Orange	3
			Red	8
□ 8 10	□ <del>1</del> / <sub>5</sub>	$\Box$ $\frac{1}{2}$	$\square$ $\frac{2}{5}$	~
The table shows the number of colored marbles in a bag. What is Color Number Black 5 Red 12 Blue 10 Purple 3	is the probability of selecting a black m	arble ?		
$\boxed{2}$ $\frac{1}{6}$		✓ □ ± 30		
□ <del>5</del> 6		□ <del>5</del> 4		
6				<

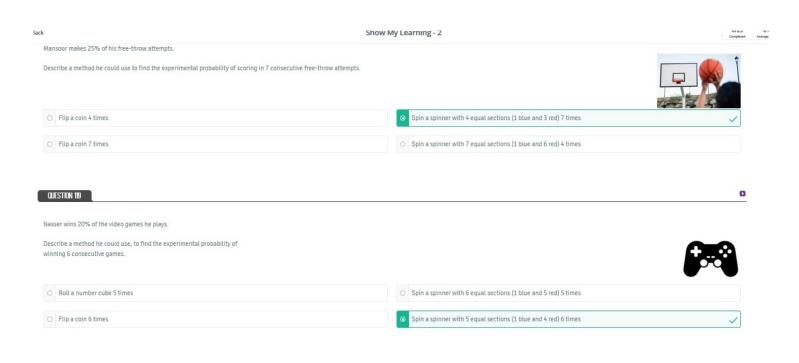




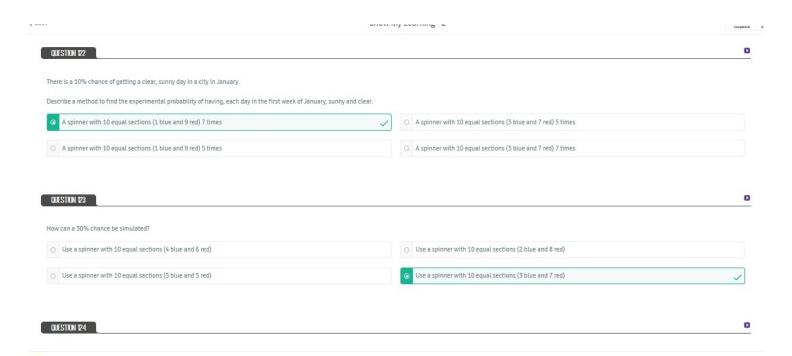


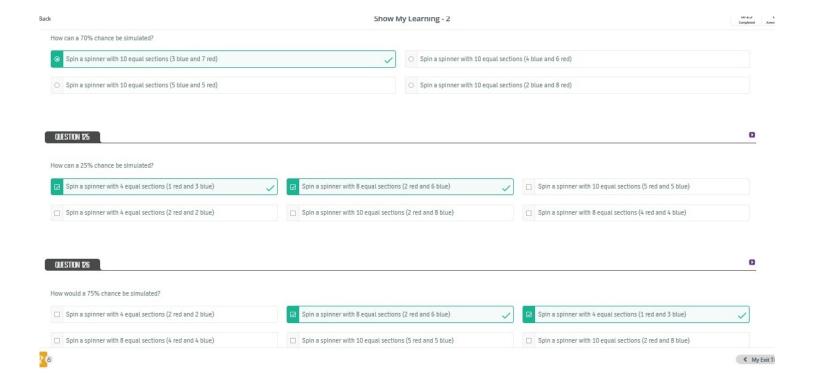
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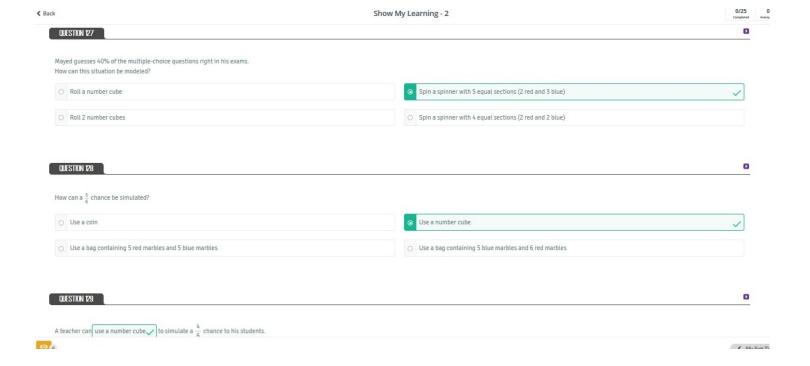
0 6

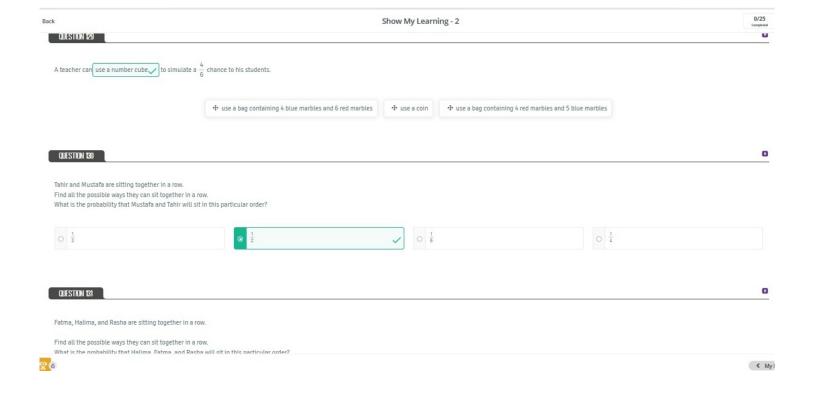


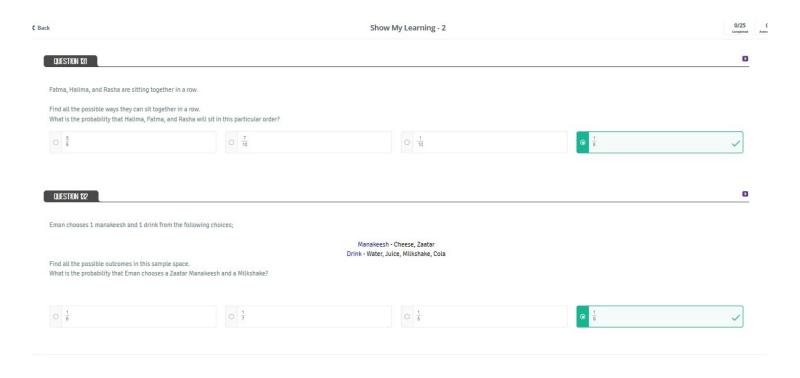
ick	Show My Learning - 2	0/25 Completed
QUESTION 120		0
Ali wins 30% of the video games he plays.		
Describe a method he could use to find the experimental probability of winning 7 consecutive games.		
O Spin a spinner with 10 equal sections (4 blue and 6 red) 6 times	Spin a spinner with 10 equal sections (3 blue and 7 red) 5 times	
O Spin a spinner with 10 equal sections (6 blue and 4 red) 30 times	Spin a spinner with 10 equal sections (3 blue and 7 red) 7 times	<b>✓</b>
There is a 90% chance of getting a clear, sunny day in a city, during the month of August.  Describe a method to find the experimental probability, of getting clear, sunny days for all the.	lays, in the first week of August.	0
There is a 90% chance of getting a clear, sunny day in a city, during the month of August.	lays, in the first week of August.  Spin a spinner with 10 equal sections (2 blue and 8 red) 7 times	D



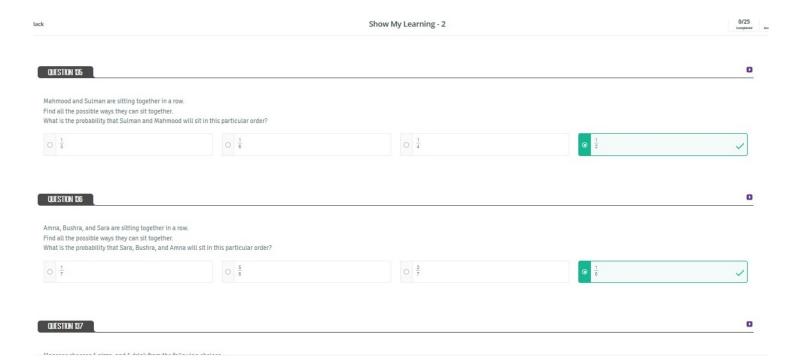


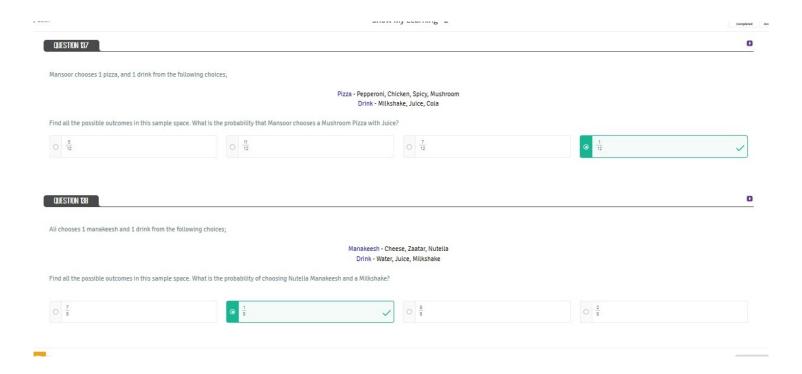


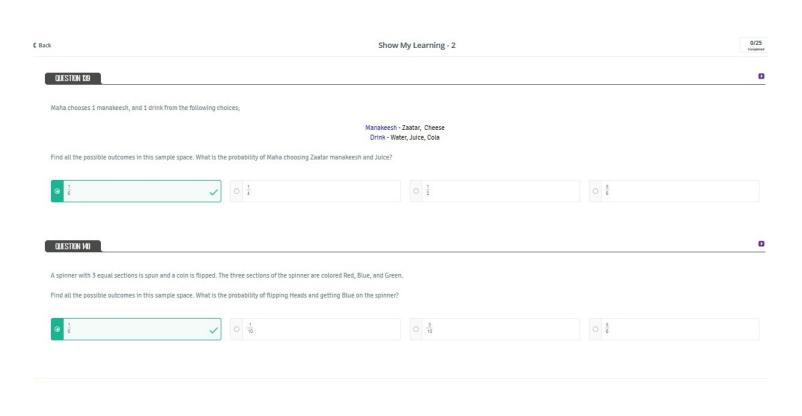


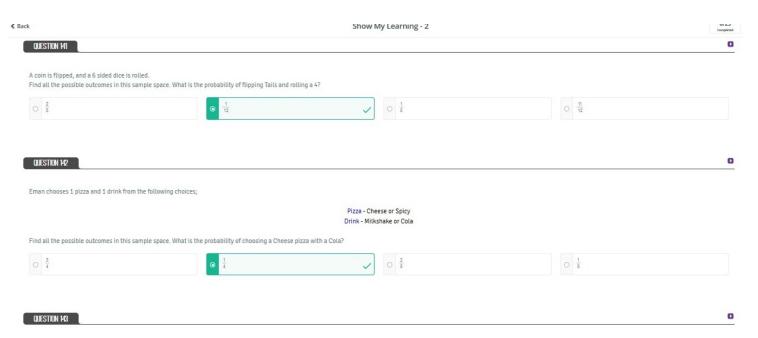


STION TOS			0
chooses 1 manakeesh, and 1 drink from the following choices;			
	Manakeesh - Zaatar Drink - Water, Juice, Cola		
ill the possible outcomes in this sample space. What is the probability of Najla choosing Zaa	atar with Water?		
1 0 1 0 1 d	$\bigcirc$ $\frac{1}{2}$	O 1/8	
STION IS4			0
	e numbered 1,2 and 3.		0
nner with 3 equal sections is spun and a coin is flipped. The three sections of the spinner are			0
oner with 3 equal sections is spun and a coin is flipped. The three sections of the spinner are all the possible outcomes in this sample space. What is the probability of flipping Heads and		○ <u>1</u> <u>5</u>	0
nner with 3 equal sections is spun and a coin is flipped. The three sections of the spinner are all the possible outcomes in this sample space. What is the probability of flipping Heads and	d getting a 2?	O 1 5	0

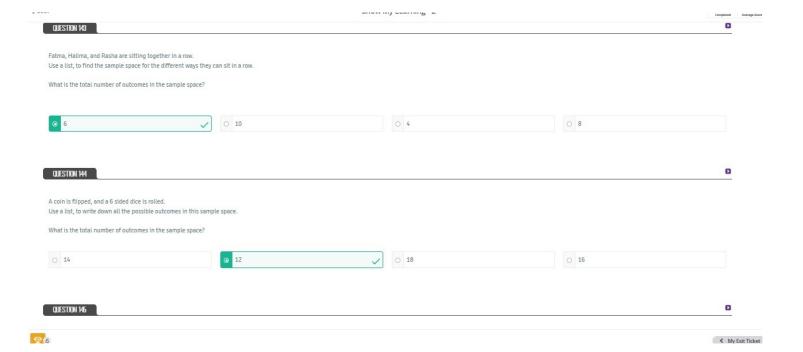


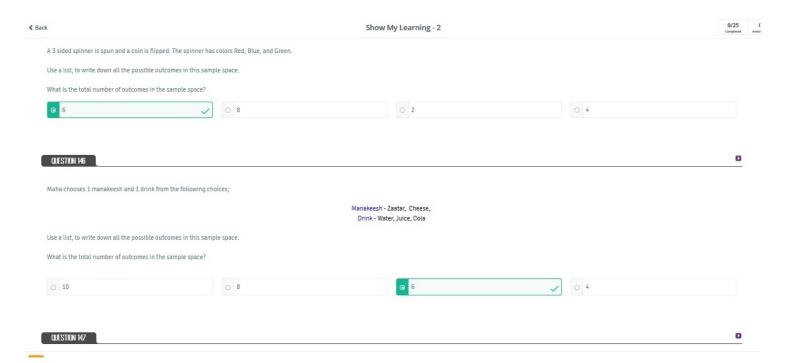


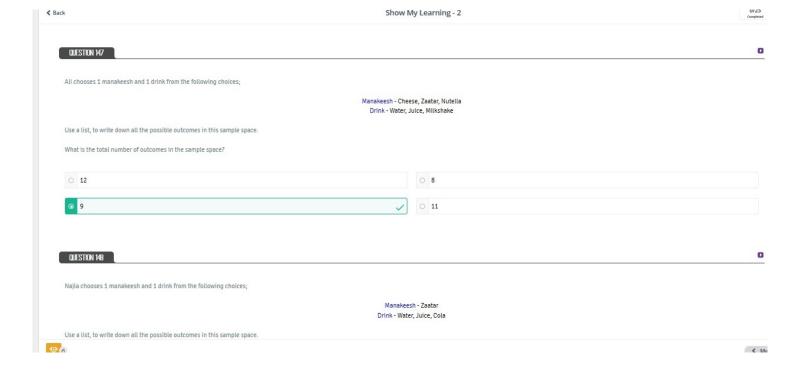




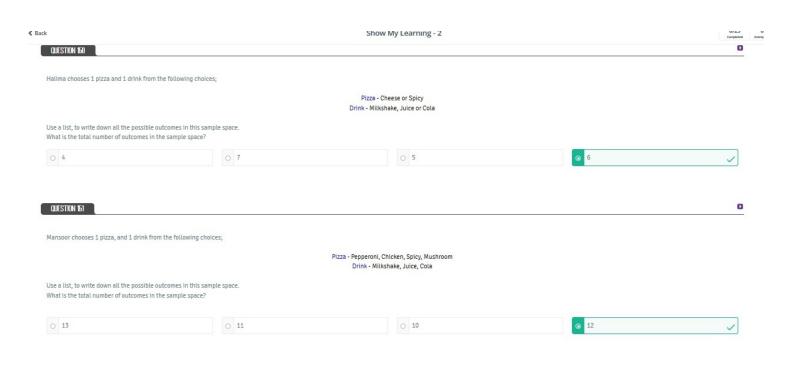
 $\label{eq:Fatma} \textit{Fatma}, \textit{Halima}, \textit{and} \; \textit{Rasha} \; \textit{are} \; \textit{sitting} \; \textit{together} \; \textit{in} \; \textit{a} \; \textit{row}.$ 

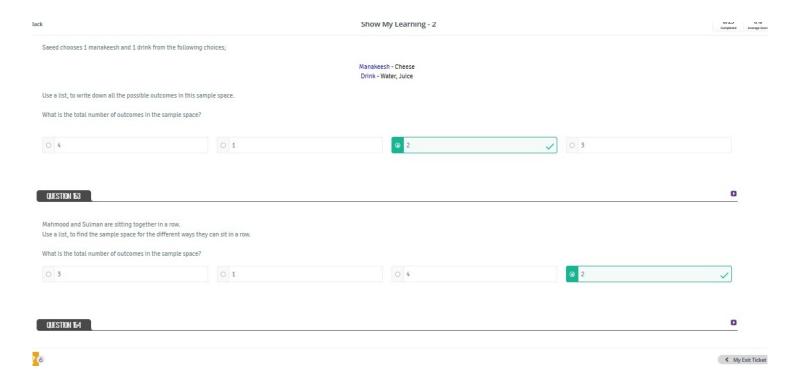


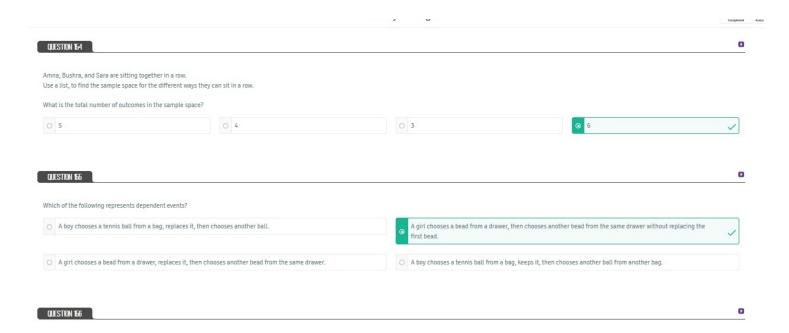


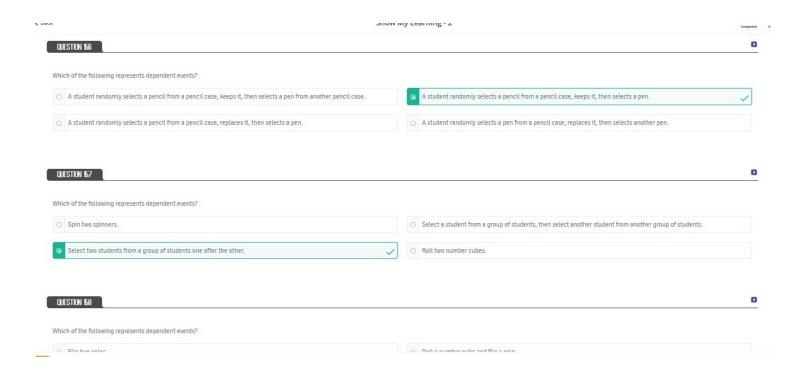


ack		Show My Learning - 2	0/25 Complete
doronou no			
Najla chooses 1 manakeesh and 1 drini	k from the following choices;		
		Manakeesh - Zaatar Drink - Water, Juice, Cola	
Use a list, to write down all the possible	e outcomes in this sample space.		
What is the total number of outcomes i	n the sample space?		
O 2	0 4	© 5 ✓	1
		<b>V</b>	
QUESTION 149			
QUESTION 148		Manakeesh - Cheese, Zaatar Drink - Water, Juice, Milkshake, Cola	
QUESTION 148	k from the following choices;	Manakeesh - Cheese, Zaatar	
Aisha chooses 1 manakeesh and 1 drin	k from the following choices; e outcomes in this sample space.	Manakeesh - Cheese, Zaatar	









QUESTION 68	D
Which of the following represents dependent events?	
O Flip two coins.	O Roll a number cube and flip a coin.
Randomly select a marble from a bag, then select another marble without replacement.	Randomly select a marble from a bag, replace it, then select another marble.
COLESTION E9	0
Find the probability of randomly selecting two red apples one after the other from a bag containing the apples shown below wi	hout replacement?
2 15 V	
QUESTION FOO	
Find the probability of randomly selecting a red then a green apple from a bag containing the apples shown below, without rep	
<u>8</u> <u>45</u> ✓ ▼	



QUESTION 163

A bag contains letter tiles as shown in the table.

What is the probability of selecting letter A tile then letter C tile at random without replacement?



## QUESTION 164

A bag contains letter tiles as shown in the table.

What is the probability of selecting two letter A tiles one after the other at random without replacement?



	Letter	Count	
	Α	4	
	В	6	
_	С	3	
		-	

## QUESTION 165

A bag contains letter tiles as shown in the table.

What is the probability of selecting two letter B tiles one after the other at random without replacement?



QUESTION 166

. 8	Letter	Count
	A	4
S	В	6
_	С	3
D	D	7

