Student Name:	Score:
Probability of Numbers	s Worksheet
A number is chosen at random from 1 to 10.	
Problems	Work Space
Find the probability of selecting a multiple of 2.	
Answer:	
Find the probability of selecting a multiple of 3.	
Answer:	
Find the probability of selecting neither a multiple of 2 nor multiple of 3.	
Answer:	
Find the probability of selecting the factors of 4 and factors of 6.	
Answer:	
Find the probability of selecting an odd number.	
Answer:	

Student Name:	Score:
Answers	
Find the probability of selecting a	
multiple of 2.	
Answer: $\frac{1}{2}$	
Find the probability of selecting a	
multiple of 3.	
2	
Answer: $\frac{3}{10}$	
Find the probability of selecting neither	
a multiple of 2 nor multiple of 3.	
Answer: $\frac{3}{10}$	
Find the probability of selecting the	
factors of 4 and factors of 6.	
A 1	
Answer: $\frac{1}{5}$	
Find the probability of selecting an odd number.	
Hullingel,	
Answer: $\frac{1}{2}$	
M	

Mutually exclusive and mutually inclusive

1	2	18	A	5)
6	7	7	2	31 5
33.	12	13	114	115
.16	17	18	1 5	20
21	22	750	24	25

A dart board is numbered from 1 to 25. Each cell is colored red, green or blue. A dart is thrown and hits the board.

Work Space

What is the probability of hitting an even number?

Answer:

What is the probability of hitting an even number in the red cells?

Answer:

What is the probability of hitting a blue cell?

Answer:

What is the probability of hitting a green or a red cell?

Answer:

What is the probability of hitting an odd number in a blue or green cell?

Answer:

•

Student Name:	Score:
Answers:	
A dart board is numbered from 1 to 25. Each red, green or blue. A dart is thrown and hits t	
What is the probability of hitting an even num	mber?
Answer: 12/25	
What is the probability of hitting an even nuncells?	mber in the red
Answer: $\frac{4}{25}$	
What is the probability of hitting a blue cell?	
Answer: $\frac{9}{25}$	
What is the probability of hitting a green or a	red cell?
Answer: $\frac{16}{25}$	
What is the probability of hitting an odd num green cell?	ber in a blue or
Answer: $\frac{9}{25}$	

Student Name:	Score:
Identify the suitab	le events
Identify more likely, less likely, equally likely,	, sure and impossible events:
	Answer
Selection of a white ball from a box with 5 w balls, 8 red balls and 10 yellow balls.	hite
Selection of a black card from a deck of cards	5
Occurrence of even number when a die is rol	led.
Selection of red marble from a box with 12 remarbles.	ed
Selection of red marble from a box with 12 white balls.	
Selecting a boy for a field trip from a group of students with 12 girls.	² 35

:Score:		
and impossible events:		
Answer		
Less likely		
Equally likely		
Equally likely		
Sure event		
Impossible event		
More likely		

Balls in a contain	ier
	Work Space
There are 5 white balls, 8 red balls, 7 yellow balls and 4 green balls in a container. A ball is chosen at random.	
What is the probability of choosing red?	
Answer:	
What is the probability of choosing green?	
Answer:	
What is the probability of choosing either red or white?	
Answer:	
What is the probability of choosing neither white nor green?	
Answer:	
What is the probability of choosing other than yellow?	
Answer:	
What is the probability of choosing black?	
Answer:	

Student Name: _____

Student Name	,	
Student Hanne		

Answers:

Work Space

There are 5 white balls, 8 red balls, 7 yellow balls and 4 green balls in a container. A ball is chosen at random.

What is the probability of choosing red?

Answer: $\frac{1}{3}$

What is the probability of choosing green?

Answer: $\frac{1}{6}$

What is the probability of choosing either red or white?

Answer: $\frac{13}{24}$

What is the probability of choosing neither white nor green?

Answer: $\frac{5}{8}$

What is the probability of choosing a ball other than yellow?

Answer: $\frac{17}{24}$

What is the probability of choosing black?

Answer: 0

Deck of Cards Worl	ksheet
A card is drawn from a deck of 52 cards.	
Find the probability of drawing a club and heart.	Work Space
Answer:	
Find the probability of drawing either a black card or number 10.	*****
Answer:	
Find the probability of drawing a number more than 5.	
Answer:	
Find the probability of drawing a picture card. (includes jack, queen or king)	
Answer:	
Find the probability of drawing a red ace.	
Answore	

Student Name: _

Student Name:	Score:
Answers	
Find the probability of drawing a club and heart.	Work Space
Answer: $\frac{1}{52}$ Find the probability of drawing either a black card or number 10.	
Answer: $\frac{7}{13}$ Find the probability of drawing a number more than 5.	
Answer: $\frac{5}{13}$ Find the probability of drawing a picture card. (includes jack, queen or king)	

Answer: $\frac{3}{13}$ Find the probability of drawing a red ace.

Answer: $\frac{1}{26}$

Student Name:	Score:
Pair of Dice	Worksheet
A pair of dice is rolled.	
Problems	Work Space
Find the probability of showing 6 on the first die or 4 on the second die	
Answer:	
Find the probability of showing an even number on the first die and an odd number on the second die	
Answer:	
Find the probability of neither showing multiple of 3 nor multiple of 4 on the second die	
Answer:	
Find the probability of showing multiple of 2 and multiple of 3 on the first die	
Answer:	
Find the probability of showing either prime number on the first die or multiple of 5 on the second die	
Answer:	

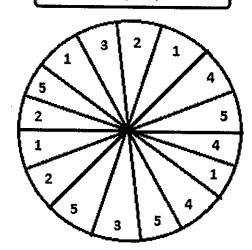
Student Name:	Score:
Answers	
Find the probability of showing 6 on the	
first die or 4 on the second die	
Answer: $\frac{11}{36}$	
Find the probability of showing an even	
number on the first die and an odd	
number on the second die	
Answer: $\frac{1}{4}$	
Find the probability of neither showing	·
multiple of 3 nor multiple of 4 on the	
second die	
1	
Answer: $\frac{1}{2}$	
Find the probability of showing multiple	
of 2 and multiple of 3 on the first die	
Answer: $\frac{1}{\epsilon}$	
9	
Find the probability of showing either prime number on the first die or	
multiple of 5 on the second die	
and a contraction and	
·	
Answer: $\frac{7}{12}$	
14	

Student Name:	Score:
Coins Work	sheet
Two fair coins are simultaneously tossed	
Problems	Work Space
Find the probability of showing head first and tail next	
Answer:	
Find the probability of showing either heads or tails but not both	
Answer:	
Find the probability of not showing either heads or tails on both coins	
Answer:	
Find the probability of showing either head or tail on the second coin	
Answer:	
Find the probability of showing either head on the first coin or tail on the second coin	
Answer:	

Student Name:	Score:
Answers	
Find the probability of showing head first and tail next	
Answer: $\frac{1}{4}$	
Find the probability of showing either heads or tails but not both	
Answer: $\frac{1}{2}$	
Find the probability of not showing either heads or tails on both coins	
Answer: $\frac{1}{2}$	
Find the probability of showing either head or tail on the second coin	
Answer: 1	
Find the probability of showing either head on the first coin or tail on the second coin	
Answer: $\frac{3}{4}$	

Student Name:		

Probability - Spinner

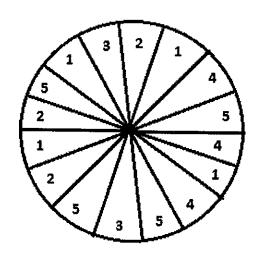


Work Space

What is the probability of choosing an odd number?	
Answer:	
What is the probability of choosing an even number?	
Answer:	
What is the probability of choosing a prime number?	·
Answer:	
What is the probability of choosing 1 or 5?	
Answer:	
What is the probability of choosing 3 or 4?	
Answer:	

Student Name:	

Answers:



Work Space

What is the probability of choosing an odd number?	
Answer: $\frac{5}{8}$	
What is the probability of choosing an even number?	
Answer: $\frac{3}{8}$	
What is the probability of choosing a prime number?	
Answer: $\frac{9}{16}$	
What is the probability of choosing 1 or 5?	
Answer: $\frac{8}{16}$	
What is the probability of choosing 3 or 4?	
Answer: $\frac{5}{16}$	

Student Name:S	core:
Independent	and Dependent
10 cards are numbered from 1 through 1	0. The cards are well shuffled and are
drawn at random.	
Problems	Work Space
Three cards are drawn without replacement. The first and the second cards show 4 and 6 respectively. Find the probability of selecting an even number in a third draw. Answer:	
If the conditions are the same as in question 1, find the probability of selecting an odd number in the third draw.	
Answer: If two cards are drawn with replacement, find the probability of choosing a prime number in both the first and the second draw.	
Answer:	
If two cards are drawn without replacement, find the probability of drawing 4 or 5 in the first draw and any even prime in the second draw.	
Answer:	

Student Name:	Score:
Answers	
Misweis	
Three cards are drawn without	
replacement. The first and the second	
cards show 4 and 6 respectively. Find	
the probability of selecting an even	
number in a third draw.	
3	
Answer: $\frac{3}{8}$	
If the conditions are the same as in	
question 1, find the probability of	
selecting an odd number in the third	
draw.	
r	
Answer: $\frac{5}{8}$	
If two cards are drawn with	
replacement, find the probability of	
choosing a prime number in both the	
first and the second draw.	
Answer: $\frac{4}{10} * \frac{3}{9} = \frac{2}{15}$	
If two cards are drawn without	
replacement, find the probability of	
drawing 4 or 5 in the first draw and any	,
even prime in the second draw.	
Answer: $\frac{2}{10} * \frac{1}{9} = \frac{1}{45}$	
10 9 45	1

Student Name:	Score:
Independent a	and Dependent
A box contains 2 red marbles, 3 white mar	
marble. Two marbles are drawn at randon	n without replacement. Find the
probability of	,
Problems	Work Space
Selecting a groon morble on the	
Selecting a green marble on the second draw if the first marble is blue.	
araw if the first marble is pide.	
Answer:	
Selecting a white marble on the first	
draw and red marble on the second	
draw.	
Answer:	
Selecting a red marbles on both draws.	
Angwari	
Answer:	
Selecting a red or white on the first draw and green or blue on the second	
draw.	
0	
Answer:	
Selecting a white marble on the first draw and a white or blue on the second	
draw.	
Answer:	

Student	Name:		

Answers

Selecting a green marble on the second draw if the first marble is blue.

Answer: $\frac{4}{9}$

Selecting a white marble on the first draw and red marble on the second draw.

Answer: $\frac{3}{10} * \frac{2}{9} = \frac{1}{15}$

Selecting a red marbles on both draws.

Answer: $\frac{2}{10} * \frac{1}{9} = \frac{1}{45}$

Selecting a red or white on the first draw and green or blue on the second draw.

Answer: $\frac{5}{10} * \frac{5}{9} = \frac{5}{18}$

Selecting a white marble on the first draw and a white or blue on the second draw.

Student Name:	Score:
Independent and	Dependent
Two cards are drawn from single deck of 52	cards one after the other.
Problems	Work Space
Find the probability of selecting a king from the first card.	
Answer:	
If the first card is king and the card is not replaced, what is the probability of selecting a king from the second card?	
Answer:	
Find the probability of selecting a king from the first card and a queen from the second card without replacing the first card.	
Answer:	
Find the probability of selecting a Jack from the first card and queen from the second card with replacement.	
Answer:	
Find the probability of selecting 6 or 7 in the first draw and 8 or 9 in the second draw without replacement.	
Answore	

Student Name:		

Answers

	Find the probability of selecting a king
ı	from the first card.

Answer: $\frac{1}{13}$

If the first card is king and the card is not replaced, what is the probability of selecting a king from the second card?

Answer: $\frac{1}{17}$

Find the probability of selecting a king from the first card and a queen from the second card without replacing the first card.

Answer: $\frac{4}{52} * \frac{4}{51} = \frac{4}{663}$

Find the probability of selecting a Jack from the first card and queen from the second card with replacement.

Answer: $\frac{4}{52} * \frac{4}{52} = \frac{1}{169}$ Find the probability of selecting 6 or 7 in the first draw and 8 or 9 in the second draw without replacement.

Answer: $\frac{8}{52} * \frac{8}{52} = \frac{4}{169}$