	Name Schlansky Mr. Schlansky To	1) 2 things "and" 3) 2 things (given front) 4) 2 things (no leguons) vo Way Pro	total total total total total total condition(last) condition (Fish) obability	Date Algebra Tables	
	1.	Tacos	Pizza	Total	Data will
	Male	6	7	13	
	Female	5	9	14	Vary by
	Total	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	16	27	Llass
	Find the following pro	obabilities			
Cillonstance	Male and tacos	Male and pizza	Female and tace	os Female and p	oizza
	6		_5	9	
	100 A	27	27	27	
(Numstance)	Male	Female	Tacos	Pizza	
2	13	14		Pizza	
	27	27	27	27	
	Male given that tacos		Female given th	nat pizza	
Hance	(0	-	9		
W. Jan	11		1/1	-	
Cito 3	()		10		
	Pizza given that male	,	Tacos given tha	t female	
	7		5		
	10		10	ī	
	13		17		
(0)	The probability that a for	emale likes pizza	The probability	a male likes tacos	
Lille	9			6	
CHOMPano	14			13	
	The probability a pizza	fan is a female	The probability	a taco fan is male	
	9				
	-12			0	
	1 W			11	4

				_
2.	Sports	No Sports	Total	Data will
Music	8 //_	7	150	Pata will vary by class
No Music	4 /	2	6	Vary by Cluss
Total	13/	9	21	
a) Find the probabilit	y that someone plays r	nusic given that th	ey play sports. 🖨	23
	8			
b) Find the probabili	ty that someone does n	ot play music.	2	
	$\left(A\right)$			
	21			
	2		CI	
c) Find the probabilit	y that a musician does	not play sports.	()	
	7			
_	15			
d) Find the probabili	ty that someone does n	ot play music and	does not play sports	CI
d) Find the probabili		ot play music and	good not play opoits.	
	$\frac{2}{21}$			
	•			
e) Find the probabili	ty that someone plays s	sports. (2		
	12			
- **	21			
A Find the much chilit	y that an athlete does r	not play music	4	
i) Find the probabilit	y that an atmete does i	iot play music.	, (
	4			
	12			4.0
g) Find the probabili	ty that someone plays	music given that th	ney do not play sports	i. C 3
	9			
h) If age age 1	1	ility that they do s	ot play enorte	4
n) II someone plays	music, find the probab	miy mai mey do n	or play sports.	_ (
$\overline{}$				

3. One-hundred employees of a company were asked their opinion on paying high salaries to the CEO. Their responses are summarized in the following contingency table. Express the following probabilities as fractions and rounded to the nearest percent.

	In Favor	Against	
Male		45	60.
Female	4 /	36	40
	19/	81	100

a) Find the probability that they are male and in favor

b) Find the probability that they are female one thing

c) Find the probability that a male is in favor

d) Find the probability that they are against given that they are female

e) Find the probability that someone is in favor is a male

f) Find the probability that someone is female and against



g) Find the probability that a female is in favor



h) Find the probability that someone is male given that they are in favor

4 yt. A statistics class surveyed some students during one lunch period to obtain opinions about television programming preferences. The results of the survey are summarized in the table below.

Programming Preferences

-			_
	Comedy	Drama	
Male	70	35	105
Female	48	42	90
	118	77	145

What is the probability that a student is male and prefers comedy?

What is the probability that a male student would prefer comedy?

What is the probability that a student is male? I thing

What is the probability that a student is female given that they like drama?

12. A public opinion poll was taken to explore the relationship between age and support for a candidate in an election. The results of the poll are summarized in the table below.

Age	For	Against	No Opinion
21-40	30	12	8
41-60	20	40	15
Over 60	25	35	15
	75	87	38

What is the probability that someone has no opinion? | thing

What is the probability that someone is over 60 and against?

What is the probability that someone is for the candidate given that they are between 21-40?

6 & 14. A survey about television-viewing preferences was given to randomly selected freshmen and seniors at Fairport High School. The results are shown in the table below.

	Favorit	e Type of Pro	gram	
	Sports	Reality Show	Comedy Series	Annual Comments of
Senior	83	110	67	13
Freshmen	119	103	54	3
	202	213/	121	5.

A student response is selected at random from the results. State the exact probability the student response is from a freshman, given the student prefers to watch reality shows on television.



7 45. At Berkeley Central High School, a survey was conducted to see if students preferred cheeseburgers, pizza, or hot dogs for lunch. The results of this survey are shown in the table below.

	Cheeseburgers	Pizza	Hot Dogs	
Females	32	44	24	100
Males	36	30	34	100
	68	74	58	200

Based on this survey, what percent of the students preferred pizza?

- 4) 74

$$\frac{74}{500} = 37/$$

Kin LB. A middle school conducted a survey of students to determine if they spent more of their time playing games or watching videos on their tablets. The results are shown in the table below.

	Playing Games	Watching Videos	Total
Boys	138	46	184
Girls	54	142	196
Total	192	188	380
	1		

Of the students who spent more time playing games on their tablets, approximately what percent were boys?

- 1) 41
- 2) 56

- $\frac{QP}{4775}$ $\frac{138}{192} = 71.875\%$

9 W. A survey was given to 12th-grade students of West High School to determine the location for the senior class trip. The results are shown in the table below.

	Niagara —Falls	Darien Lake	New York City	
Boys	56	74	103	533
Girls	71	92	88	32
	127	Ido	191	484

To the nearest percent, what percent of the boys chose Niagara Falls?

- 1) 12
- 24

- 3) 44
- 4) 56

18. Jenna took a survey of her senior class to see whether they preferred pizza or burgers. The results are summarized in the table below.

0010111		4	. 6
	Pizza/	Burgers	
Male	23	42	65
Female	31	26	57
	54	(08)	199

Of the people who preferred burgers, approximately what percentage were female?

1) 21.3

3) 45.6

20) 38.2

4) 61.9

1(16.19. Students were asked to name their favorite sport from a list of basketball, soccer, or tennis. The results are shown in the table below.

	Basketball	Soccer	Tennis
Girls	42	58	20
Boys	84	41	5
	126	99	25

What percentage of the students chose soccer as their favorite sport?

① 39.6%

3) 50.4%

2) 41.4%

4) 58.6%