Reading tables of ratios	1 states Reading Tables of Rates and Percentages	Statistical Literacy
	Keene State College May 16, 2012	
	MILO SCHIELD	
	W.M. Keck Statistical Literacy Project	
	Augsburg College www.augsburg.edu/nnages/~schield	
	schield@augsburg.edu	
	www.StatLit.org/pdf/2012Schield5Keene6up	







Reading tables of ratios	5 cmmar Differences: Percentage and Rates	Statistical Literacy
1. Ad a	jectives: . Accident rate b. Accident percentage	e
2. 'Of': a.	Rate of inflation b. Percentage of infla	ation
3. 'Of' a. b.	and relative clause: Rate of workers who are unemployed Percentage of workers who are unemplo	oyed
4. 'Of' a.	and 'among: Rate of unemployment among workers	

b. Percentage of unemployment among workers

6 Reading Statistical **Difficulties Reading** tables of Literacy **Rates in Tables** ratios Percentage of Smoking Prevalence Among U.S. Adults, 18 and Older: 1955 - 1990 Year **A**11 Males Females Whites Blacks 1955 56.9 28.4 1965 42.4 51.9 33.9 42.1 (45.8) 1970 37.4 44.1 31.5 37.0 41.4 1980 33.2 37.6 29.3 32.9 36.9 1990 25.5 28.4 22.8 25.6 26.2 Among U.S. adults 18 and over in 1965, 45.8% is a. the percentage of smokers who are black b. the percentage who are black smokers c. the percentage of blacks who are smokers

Reading tables of ratios		Diffic Rat	ہ ulties es in	s Rea Tab	ading les	Statistical Literacy
Perc	entage S. Adi	e of Sinds	mokin S and G	ng <i>Pro</i> Older	evalence • 1955 -	Among 1990
		w-l	, und			1770
10FF	AII	Males F	remates (whites .	BIACKS	
1955	42 4	51 9	20.4	42 1	45.8	
1970	37.4	44.1	31.5	37.0	41.4	
1980	33.2	37.6	29.3	32.9	36.9	
1990	25.5	28.4	22.8	25.6	26.2	
Amor a. 45 b. 45 c. 45	ng U.S. .8% of .8% ar .8% of	adults smoker e black blacks	18 and rs are b smoke are smo	over i black rs okers	n 1965,	

Percent of Women, 15 to 44, Who Received Selected Medical ServicesCHARACTERISTICPregnancy testPage smear15-19 years old16.061.915-19 years old14.616.133.520-24 years old23.625.370.930-34 years old18.517.469.535-39 years old14.28.162.940-44 years old10.04.362.7Source: For 1995.Taken from Table 198 in 1998 U.S. Statistical Abstract.CHOICES: Among these women ages 15-44,a. 10% of those aces 40-44 received an HIV test.b. 10% of those aces 40-44 received an HIV test.	Reading tables of ratios Pe)ifficulti rcentag	8 STEADER es Reading jes in Tabl	g Statist Es	ical acy
Who Received Selected Medical ServicesCHARACTERISTICHIV TestPregnancy testPag smearTotal15-19 years old14.661.9MGE AT INTERVIEW15-19 years old23.727.468.725-29 years old23.727.468.725-29 years old18.517.469.535-39 years old14.28.162.940-44 years old10.04.362.7Source: For 1995.Taken from Table 198 in 1998 U.S. Statistical Abstract.CHOICES: Among these women ages 15-44,a.10% of those ages 40-44 received an HIV test.b.10% of those ages 40-44 received an HIV test.	Percent of V	Vomen, 1	5 to 44,		
CHARACTERISTIC HIV Test Pregnancy test Pap smear Total 17.3 16.0 61.9 AGE AT INTERVIEW 15-19 years old 14.6 16.1 33.5 20-24 years old 23.7 27.4 68.7 25-29 years old 23.6 25.3 70.9 30-34 years old 18.5 17.4 69.5 35-39 years old 14.2 8.1 62.9 40-44 years old 10.0 4.3 62.7 Source: For 1995. Taken from Table 198 in 1998 U.S. Statistical Abstract. CHOICES: Among these women ages 15-44, a. 10% of those aces 40-44 received an HIV test. b. 10% of those aces 40-44 received an HIV test.	Who Rec	eived Sel	ected Medica	al Services	
Total 17.3 16.0 61.9 AGE AT INTERVIEW 15-19 years old 14.6 16.1 33.5 20-24 years old 23.7 27.4 68.7 25-29 years old 23.6 25.3 70.9 30-34 years old 18.5 17.4 69.5 35-39 years old 14.2 8.1 62.9 40-44 years old 10.0 4.3 62.7 Source: For 1995. Taken from Table 198 in 1998 U.S. Statistical Abstract. CHOICES: Among these women ages 15-44, a. 10% of those ages 40-44 received an HIV test. b. 10% of those ages 40-44 received an HIV test. b.10% of those ages 40-44 received an HIV test.	CHARACTERISTIC	HIV Test	Pregnancy test	Pap smear	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Total AGE AT INTERVIEW	17.3	16.0	61.9	
20-24 years old 23.7 27.4 68.7 25-29 years old 23.6 25.3 70.9 30-34 years old 18.5 17.4 69.5 35-39 years old 14.2 8.1 62.9 40-44 years old 10.0 4.3 62.7 Source: For 1995. Taken from Table 198 in 1998 U.S. Statistical Abstract. CHOICES: Among these women ages 15-44, a. 10% of those receiving an HIV test are ages 40-44. b. 10% of those ages 40-44 received an HIV test.	15-19 years old	14.6	16.1	33.5	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20-24 years old	23.7	27.4	68.7	
30-34 years old 18.5 17.4 69.5 35-39 years old 14.2 8.1 62.9 40-44 years old 10.0 4.3 62.7 source: For 1995. Taken from Table 198 in 1998 U.S. Statistical Abstract. CHOICES: Among these women ages 15-44, a. 10% of those receiving an HIV test are ages 40-44. b. 10% of those ages 40-44 received an HIV test.	25-29 years old	23.6	25.3	70.9	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	30-34 years old	18.5	17.4	69.5	
40-44 years old <u>(10.0</u>) 4.3 62.7 Source: For 1995. Taken from Table 198 in 1998 U.S. Statistical Abstract. CHOICES: Among these women ages 15-44, a. 10% of those receiving an HIV test are ages 40-44. b. 10% of those ages 40-44 received an HIV test.	35-39 years old	14.2	8.1	62.9	
Source: For 1995. Taken from Table 199 in 1998 U.S. Statistical Abstract. CHOICES: Among these women ages 15-44, a. 10% of those receiving an HIV test are ages 40-44. b. 10% of those ages 40-44 received an HIV test.	40-44 years old	(10.0)	4.3	62.7	
CHOICES: Among these women ages 15-44, a. 10% of those receiving an HIV test are ages 40-44. b. 10% of those ages 40-44 received an HIV test.	Source: For 1995. Tak	en from Table 198	in 1998 U.S. Statistica	1 Abstract.	
a. 10% of those receiving an HIV test are ages 40-44. b. 10% of those ages 40-44 received an HIV test.	CHOICES: An	nong these w	omen ages 15-44.	•	
b. 10% of those ages 40-44 received an HIV test.	a. 10% of thos	e receiving a	n HIV fest are ag	yes 40-44.	
D. 10% of those ages 40-44 received an rity test.	h 100/ of these	a agas 40.44	n mit test are ag	40-4-1	
	b. 10% of thos	e ages 40-44	received an HIV	test.	



A corner margin value can be a sum one way and an average the othe	A	corner m	argin	value	can	be a	sum	one	way	and	an	average	the	other	r
--	---	----------	-------	-------	-----	------	-----	-----	-----	-----	----	---------	-----	-------	---



Reading tables of ratios	11 ••••• Presentation Rules for Ratio-Tables	Statistical Literacy
1. Neve "The	er use <i>percent</i> if <i>percentage</i> is not <i>percent</i> of women who received served se	eeded. vices"
2. Neve "The	er omit relative clause indicators percentage of men <i>with</i> disabilities	• ,,
3. Neve "The	er use an adjective-noun for part percentage of <i>unemployed men</i> "	-whole.
4. Neve Use	er use just "by" for a part. 'distributed by' or appropriate g	rammar.

"Death Rates [classified] by specific causes"



