





Reading tables of ratios Amb	4 Rat iguit	es y of	" by	9	Sta Li	itistica teracy
No. 139. Age-Adjusted I [Rates per 100,000 population. For explanati is the total population of the U	Death Ra on of age-ac nited States	ites, by	Selected ee text, Sec 5 in 1940. S	Causes tion 2. The ee also hea	standard po	0 1996 opulation f ≥ 138]
CAUSE OF DEATH	1990	1991	1992	1993	1994	1995
CAUSE OF DEATH All causes Major cardiovascular diseases Diseases of heart	1990 520.2 189.8 152.0	1991 513.7 185.0 148.2	1992 504.5 180.4 144.3	1993 513.3 181.8 145.3	1994 507.4 176.8 140.4	1995 503.9 174.9 138.3









Reading tables of ratios	Diff and	icultie Perce	9 es Re entaç	eadir ges i	ng Rate n Tabl	es Statistical Literacy
Perc	entage J.S. Ad	e of Sı ults, 18	nokin 8 Year	g Pre rs of A	evalence Age and	Among Older:
Year	All	Males F	emales V	Whites H	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	
CHOICI	S: Amor	ng these	adults,	who are	black	
b. th	ne percen	tage who	are bla	ack smok	ters	
c. th	ne percer	tage of 1	blacks v	who are	smokers	

teading Rea bles of Ambig	ding guity	10 Perc of 'w	centa vith' d	ages: and	'to'	Statistic Literac
No. 103. Low Birth We STATE	ight and E Women— PERCENT LOW E	Births to T -States: 19 OF BIRTH BIRTH WEIG	S WITH	BIRTHS MOTHEF	to Unn 5 TO TEEN RS, PERCE TOTAL	IAGE NT OF
	1990	1995	1996	1990	1995	1996
U.S	7.0	7.3	7.4	12.8	13.1	12.9
AL	8.4 4.8 6.4 8.2 5.8	9.0 5.3 6.8 8.2 6.1	9.3 5.5 6.6 8.5 6.0	18.2 9.7 14.2 19.7 11.6	18.5 11.2 15.1 19.6 12.4	18.3 11.2 15.0 19.8 12.0
Source: 1998 US Statisti	cal Abstract	(Section on	unmarried	women omi	tted)	

Reading tables of ratios Teaching Results Statistical Literacy

This material has been taught for five years.

- Without the margin value rules, *all students* had considerable difficulty with ratio-tables.
- Given the margin value rules, *good students* can readily describe and compare rates and percentages in the most complex ratio tables *when* these tables
- * have appropriate margin values or
- * are readily decoded from secondary clues.



Ratio tables should provide margin values to help readers identify part and whole. When margin values are not provided and the part-whole status is not readily determined,

a margin-value example should be given.

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