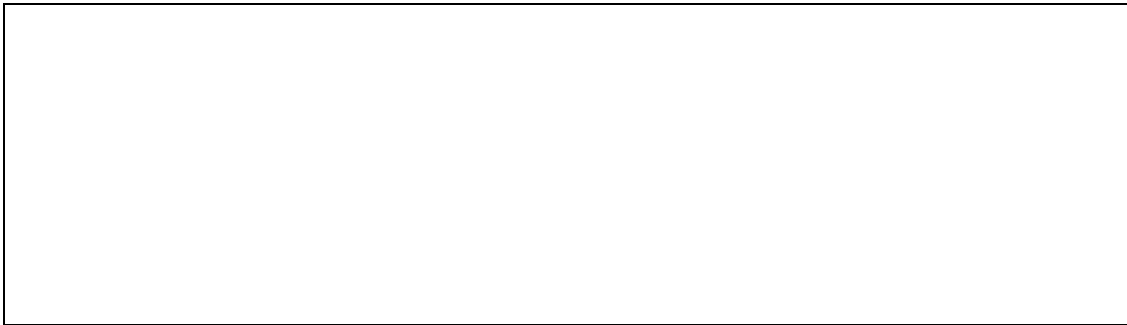




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	28..... ..	3.2.1
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	43..... ..	
44.		1.3 I
47... ..		. 2.3.. I
50..... ..		3.3. .I
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53		2.1.3. I
56		3.1.3 .I

58	4 .3.I
58	.5. 3.I
. 62 .	. 6 .3.I
64...	.7.3. .I
.66.	.8.3 .I
.69.	.9 .3.I
.70 ...	.10 .3.I
71 ..	.11 .3.I
72.	.12.3.I
.73	.13.3..I
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.75.	
76	.15. 3.I
...84.	.16 .3. I
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91..	
92	.1.4 .I
92	.1.1.4.I
93	.2.1.4.I
94.	3.1.4.I
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114.....	.5.4.1.I
115..	6.1.4. I
117	7.1.4.I
119	8.1.6. I
121..... :	9.1.4. I
124	2.4. I
124.	. .1.2.4. I
127	2.2.4. I
128.....	3.2.4 .I
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137. .	5.2.4. I
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143.....	8.2.4. I
146.....	.9.2.4.I
151..	. 10.2.4. I

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.163	:
164	1.5.I.
165	2.5.I
166 ..	3.5.I
167 ..	4.5.I
167..	5.5.I
190	6.5 I
192 ..	7.5. I
196 .	8.5. I
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206. .	10.5. I

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.216.....:

216.....	.	..1.1. II
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227..	.	5.1. II
228.		.6.1. II
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248.....		.3.61. II
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361	N	37
362	I	38
362	Add	39
363	H	40
363	Adhd	41
364	Cd	42
364	Adhd	43

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367		45
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368		47
369	()	48
370	()	49
371	()	50

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(Vogel 1975)

(Simpson 1982)

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(Williams, 1992

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(Ellis 1993

(ADHD)

(DSM-4 Association, 1994: American Psychiatric

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(David Rumelhart 1974)

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(Ellis 1982)

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(Anderson 1985)

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(Shallice 1988)

.Phonemic Segmentation:

Phonetic Decoding:

Phonological Coding :

Phoneme :

:Syntactic competence :

Pseudowords :

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(1996)"

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: Reading learning disability :

(1999)

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: Computer game

(1985)

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Aggressive behavior :

(Bandura 1975

Direct Aggressive behavior:

Physical Aggressive

Verbally Aggressive behavior:

(Bandura 1975)

indirect Aggressive behavior:

(Sears 1961)

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Dyslexia " "

(visual-spatial system ()"

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ideographic " " pictographic " "

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((Orton 1925)

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(Orton 1925)

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(White and Miles 1983)

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(**Ignoffo 1988**)

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(Melekian 1990)

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(Klasen 1972

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(Lesser 1976).
(Harris 1975).
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(Archer 1977)

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Minimal brain

Angular gyres

Hyper activity

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Agraphia

Acalculia

. Strephosymbolia

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Perfetti 1985***Goodman* 1972**)

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(*Gelb* 1962)

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(Ellis 1993)

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(*Postman 1954*)

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(*Vernalit*)

(*Ozhgpmjj*)

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Theories and Models of reading : : 3.3.I

Graphic Symbol.

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. Theory of reading Bottom up

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. Theory of reading top down

Theories of reading Interactive.

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) 1.1.3 .1

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(Tulving and Norman 1983

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Graphic

Words

Letter Combination

Representation

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(Geschwind1982)
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(Acetyl Cholinecstrace

(Staats And Gibson 1991)

Sounds of phonemes

Articulation

Consonant

(Goodman1972)

Current information processing

(Hunter 1985)

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Internal representation

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2.1.3 . I

(Smith Goodman 1981)

Dependent language

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graphic symbols

contextual meaning

linear

achieve meaning

processing

(**Tulving Norman1983**)

(**Goodman1972**)

(**Clay1987**)

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.Lettre – Sound Association For Decoding Process
 (**Goodman 1972**)

Word Meaning and Word

.Knowledge

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(1952) .

Contextet

Imaginary

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(**Norman 1983** .**Contavish** :

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you Can't fill Eny Thing With Contavish . - 1
 Contavish . The More You Take Out Of a - 2
 Before The House sd Finish Th Whalls Have Much Contavishes. - 3
 You Can't feel Or touch a Contavish. - 4
 A bottel has Only one Contavish. - 5
 John fell into a contavish in The Road. - 6

(Schank 1982)

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Deep Structure

Surface Structure

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3.1.3.I.

Interactive Theories of Reading

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(Rumelhart 1974)

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(Rumelhart 1974)

(Bottom up and Top – Down Process)

Word Identification

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(.Holmes 1978)

Theory of Reading

Subskills

Skills

Hierachical levels

Brain

(Holmes 1978)

Smothly

Verbal Analogue

Word Knowledge

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Goodman) .

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(*Smith* 1981) .

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(Information Processing)

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(*Filter*)

(*Kahneman* 1979)

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(Pupil)

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(Iris)

(Cornea)

(Lens)

(Retina)



(Cones)

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(Nystagmus)

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(*Liberman* 1971)

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(*Liberman*

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(Perfetti 1985)

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Capacity Linguistic)

.(Mattingly1985) (Awareness)

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(*Lieberman* 1971

(*Read* 1971)

(*Bat -bad*)

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7.3 ..I

(*Lieberman Isabelle*1971)

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(*Lieberman* 1971

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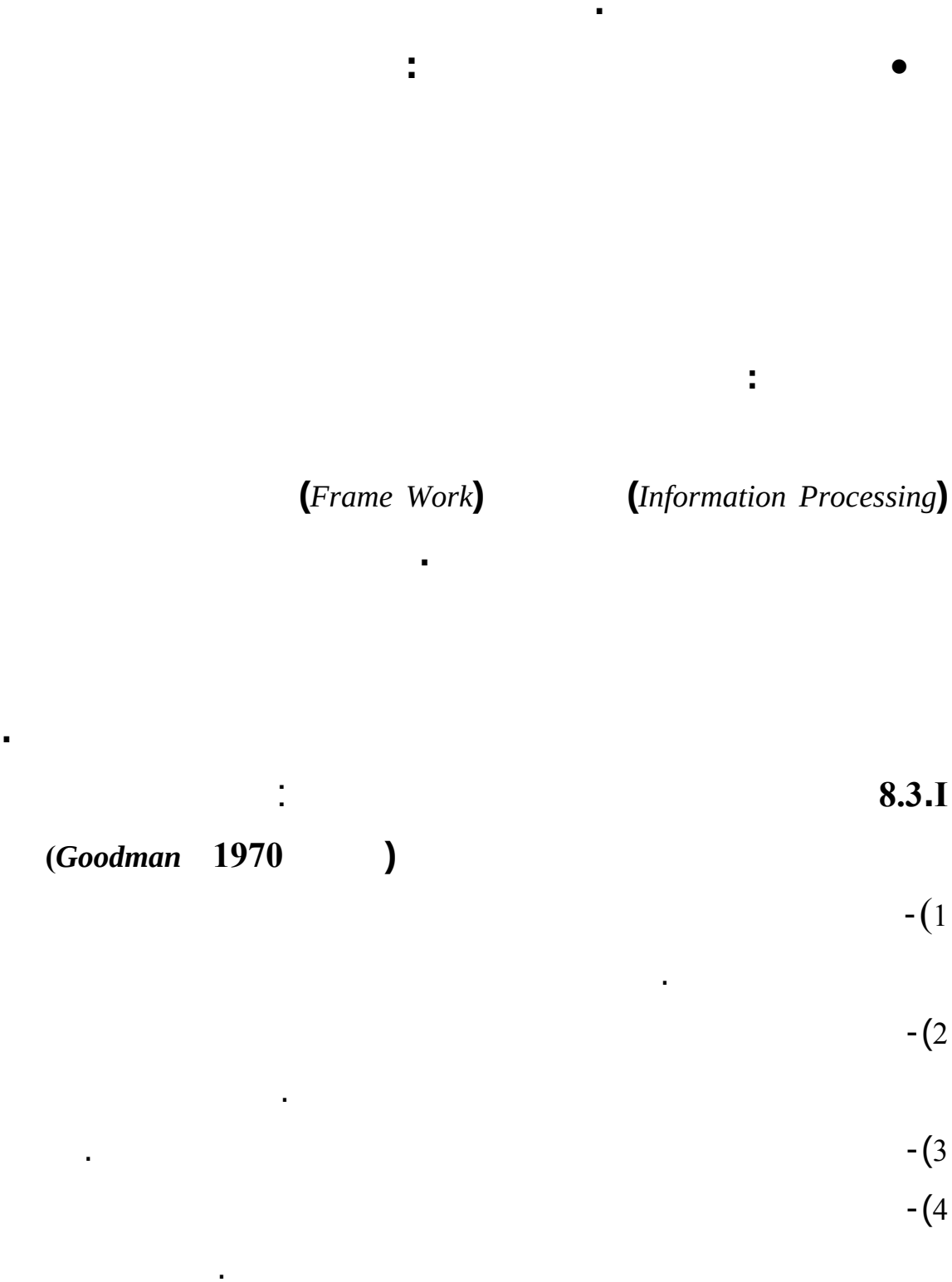
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(*Liberman* 1971)

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(*Conard* 1972)

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(The Bottleneck In Comprehension)

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(Bottleneck)(WorkingMemory)()

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- (Phonemic Coding)
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- (Phonemic Segmentation)
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- (and Liberman 1971 Shankweiler
- (Venesky 1980)
- (Pseudowords)
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- Wide range)
- (Achievement Test
- (Bottleneck)
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(*Perfetti* 1985)

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9.3.I

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(**Chall** 1967)

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(Mattingly 1985)

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(Chall 1967)

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(Goodman 1970)

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(Hatfield, 1983)

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(Adams 1990)

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:(*Chall 1967*)

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(Clay 1987)

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(Clay 1987)

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(Chall 1971)

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(Clay 1987)

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(Clay 1987)

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(Clay 1985)

Zealand New) (Pakeha) (2 maori)(1 Samoan)

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(Read 1971)

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(*Guess Memory*)

(*Chall 1967*)

(*Schank 1982*)

(*Isabelle Liberman 1971*)

(*Schank 1982*)

(*Baddeley 1982*)

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(Smith 1981)

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(Chomsky1970)

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(Chall 1967)

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(Ellis

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.(Snowling, 2001; Stanovich, 1988)

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(Phoneme)

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(Orthographic Pattern)

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(Phonological Processing)

.(Snowling, 2001)

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(Working Memory)

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.(Baddeley, 1992, Baddeley & Coltheart 1981)

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(Taha 2003)

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(Beland, R., & Mimouni. 2001)

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Dyslexia (Critchley 1975)
(Lexia) (Dys)

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1.1.4

(Miles 1983)
(DR Pringle Morgan 1896)

(Percy)

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(Morgan 1896

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(Miles 1983) :

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(Miles 1983) .

(Hughes 1976) .

(Foorman 1989).

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(Vellutino 1988) .

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(Aaron 1990)

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(Quirous&Schrager:1978)

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(Stanovich 1991) (Quirous&Schrager:1978)

Learning Difficulties

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4.1.4. I

(Miles, 1983)

(Franz Joseph Gall 1758-1828)

5000

: (Anglo-saxon
) (Adolf Kussmaul 1877)
 (Word blindness
 .
 Dyslexia (Djerine 1892)
 .
 Hinshelwood)
 (University of Glasgow
 .
 (Morgan 1896)
 .
 1909 1896 (Geschwind 1983)
 (. Hinshelwood") "
) 1903
 (Wernicke 1861) (Hollande (Lecher
 .(Allemagne) (R.Foster) 1904 Autriche
 (Sharp ringer 1906" ") 1906
 (E.Jackson)
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 .(Congenital Typholxie) (Leconte

" " (" Hinshelwood 1917 ")
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 (Lexie

(Bashman 1927 " " (Berkhane 1917 " ")

(Appert " ") 1924

(Orton Samuel " ") 1937 1919

(Jacquely " " (Austin 1930" ") 1930
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 (Ombredane " ")

1950

.(Danemark) (Evan Hallgren)

(Ajuriaguerra, Borel Maisonne, Launay

-(Priche)

) (Congenital word blindness)

(Gaddes &Edgell:1974,)

(Barbe : 1976,87) Frierson) .
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The World Federation of

(M Critchley 1970) Neurology
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. Specific developmental dyslexia

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 (Stanovitch:1994,) (Quirous&Schrager:1978)

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 (Boder 1980))

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 disphonetic
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diseidetic

(Harris&Hodges:1981))

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(1984))

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Parietal

(Vellutino 1988 .)

1989 (albany " ")

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) phonological coding " " :

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) phonemic segmentation "

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syntactic

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cross referencing "

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short – term memory "

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long term memory "

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(Vellutino 1988 .)

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Phonetic " " Phonetic decoding "
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() Phonological coding

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(Vellutino 1988 .)

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impaired " "
Phonetic decoding "

) pseudowords " "

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Phonemes

1967)

(Chall

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Phonemes " "

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Martha 1974 " ")

(Rita G .Rudel " . . " (B.Denkla

College of physicians and surgeons , columbia

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semantic ability

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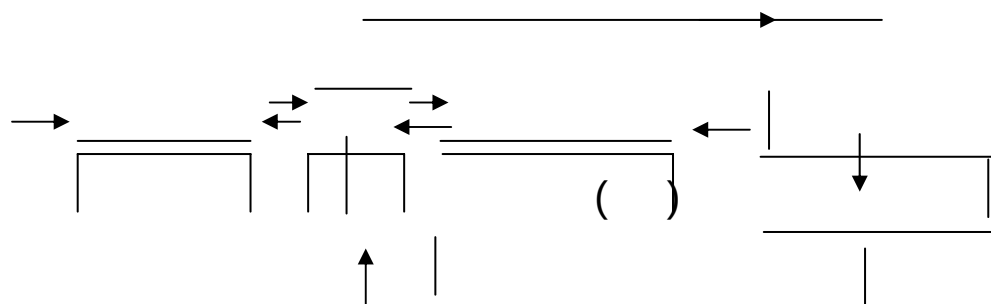
University of "

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Frank Vollutino

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(1989

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Attention deficit "

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Associative learning "

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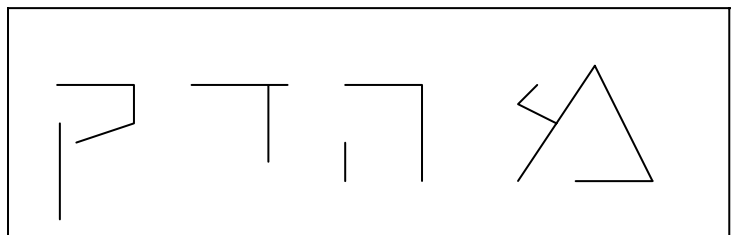
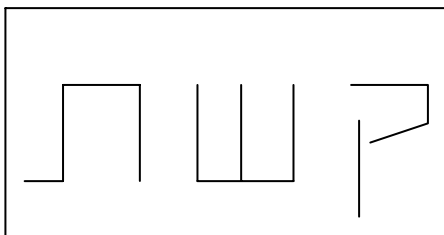
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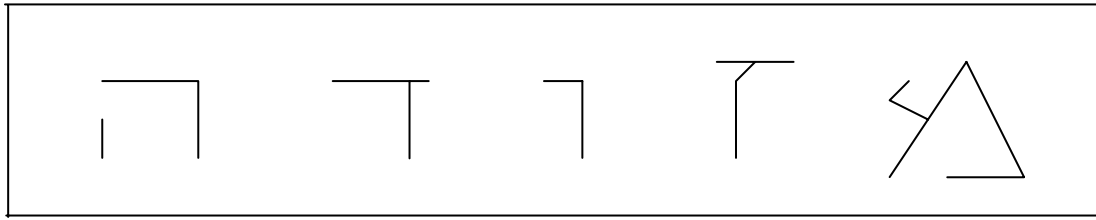
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Harold W. Stevenson " . . ") ()
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(Shaywitz, Pugh 2001

(Inferior frontal gyrus)

(Broca) –

parietal –temporal

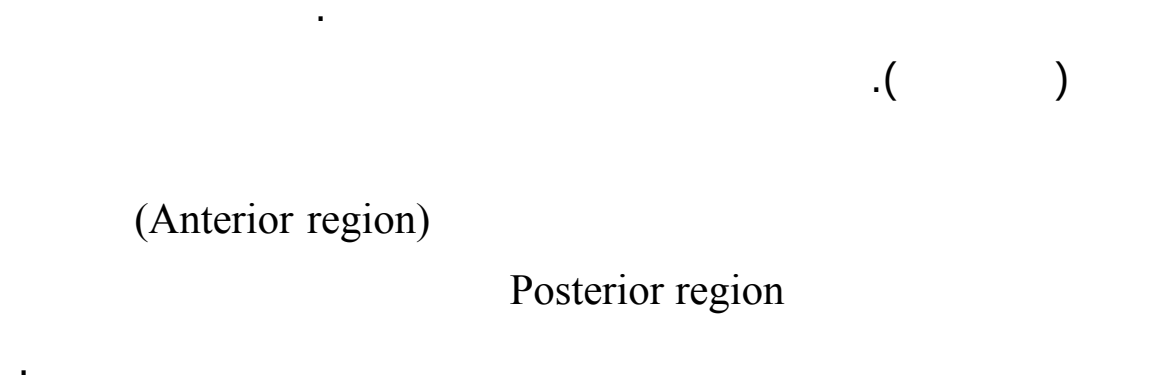
(angular gyrus)

Superior temporal

Occipital – Temporal

(system)

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6.1.4 .I

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(Orthographic Lexico)

(Seidenberg, 2001; Ellis, .1993; Frith, 1985)

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(Surface dysgraphia)

": (Frith, 1985; Snowling, 1987; Temple, 1986)

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(Snowling 1987) (implicit memory)

(decoding)

: 7.1. 4.I

Surface dysgraphia

(Lexical route)

.(Temple, 1986)

.Phonological dysgraphia

(Phonological route)

(Temple, 1986)

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(Ellis 1993)

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(**Bryant 1985**)

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(**Working Memory**)

8.1.4. I.

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(**Baddeley& Hetch, 1974**)

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1974

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(Baddeley 1992) Baddeley & Hitch 1974))

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(Central executive)

(Visuospatial sketchpad)

(Phonological loop)

(Phonological loop)

(Baddeley 1992)

(Baddeley 1992) .

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(Vellutino 1988)

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(**Baddeley 1992**

1998

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(Aphasia)

(**Marshall. Newcombe,. &**

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Neurology

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Intellectuel

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(Orton

.(Piaget 1970)

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(Rutter 1977)

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(Rutter and Williams, 1992) :

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(John Stein 1996

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(Vernon 1976) :

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(Newton 1984)

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(Vernon 1976) :

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(Vernon 1976) "

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(Rutter and Williams, 1992)

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(Critchley 1978)

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(Orton 1925 ")
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(Orton 1931

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Orton " "

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(Orton " ")

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(Vellllutino 1988 ")

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Phonetic) () (Segmentation

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(Syntactic) "

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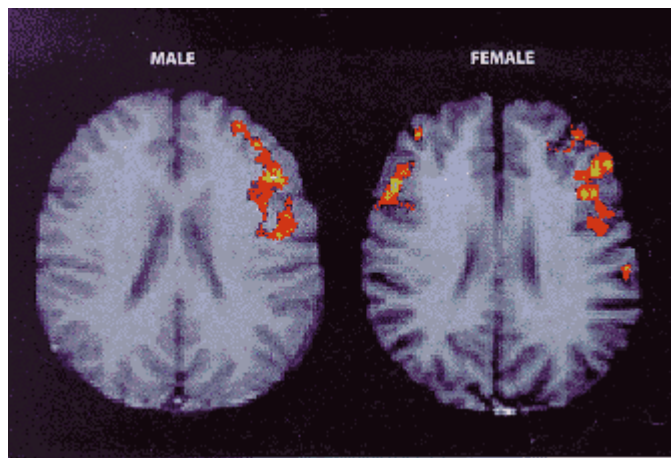
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Developmental

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Shaywitz ")

Institute for Behavioral "

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(**2001**

.(**Boder 2001**)

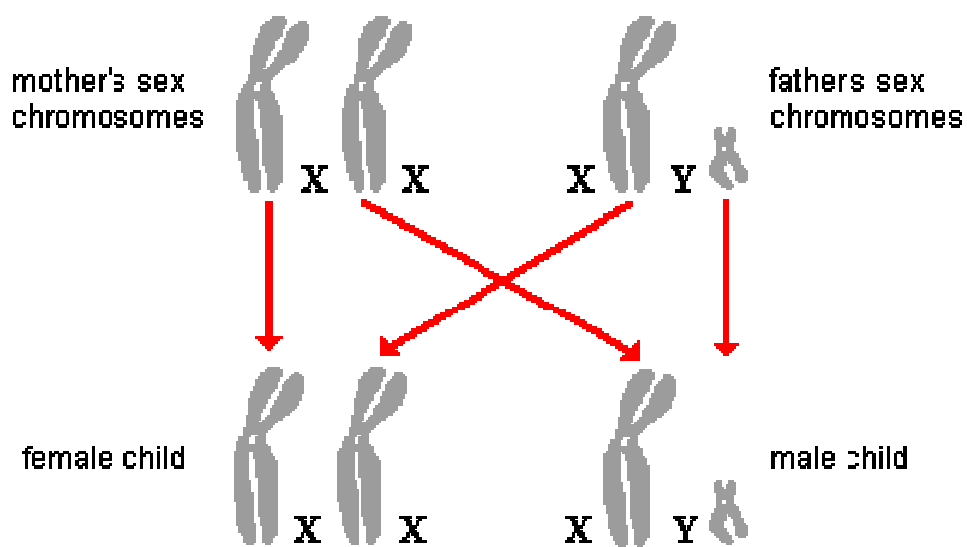
genetics

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(Smyth 2001 .)."

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(Pugh 2001)

(Shaywitz 2001)

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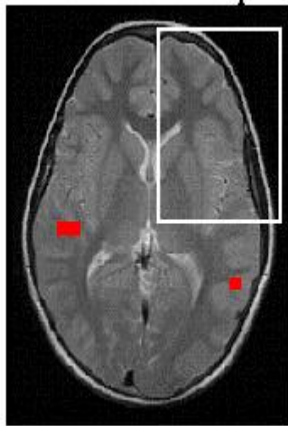


Dyslexic Example



←
Left
Anterior

Control Example



←
Left
Anterior

Todd Richards, University of Washington

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Brain electrical activity mapping (BEAM) "

1998 Caspari, I., Parkinson, S. R., LaPointe

Children's Hospital

(Duffy)

temporal " " parietal " "

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Harvard

(Galaburda 1985 ")

Medical School

anatomic anomaly " "

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regions " "

neurons " "

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(Galaburda 1985 ")

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Cerebral lateralization

immune " "

(Geschwind 1986 ") dysfunction

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immune system

(testosterone ")

(**Geschwind 1986 "**)

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Newton 1984

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(Wechsler R)

(1997 Brook Reading test . .

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Sequence Test..

Passage of free Writing ..

Perception of Sight And .

Sound Test

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(Samuel Orton 1966)

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(Terry Miles 1983)

Phonological Teaching Programmes And Phonological Awareness Training 1999.

Phonetic (Hornby Beve 1997)

.1999 (Alpha OMEGA) (Linguistic Tutoring

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(Salisbury,1973:)

(Silberman,1987)

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. Subject Matter

Computer Managed Instruction

(CMI)

Computer Assisted Instruction

.(CAI)

. Subject Matter : (1)

Computer

Computer Science

. Engineering

. Hard Ware

Computer

Literacy (CL)

(CL)

: **(Moursund:1976)**)

(Zachmeier 1983)

(Tinker1987)

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Words

LOTUS 123

Data Base

processing

Graphics

Computer Managed

(2)

Instruction (CMI)

(Strckland1979))

(Smith) 1981)

. Routing

: (CAI) (3)

(1991)

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. Tutorial Mode - 1

Drill and Practice Mode - 2

. Modeling and Simulation - 3

. Programming and Problem Solving - 4

. Computer Games - 5

.Intelligent CAI - 6

. Tutorial Mode - 1

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Frames

Feed Back

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:Introduction Frame

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(Keithhudson 1984)

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:Nonrsponsable Frame

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: Short Answer Frame -

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Drill and Practice Mode -2

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: Computer Games

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(Eysenck1978) ..(Buss 1966)

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(Sears 1961)

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1939)**(Adler 1977)****(Dollard**

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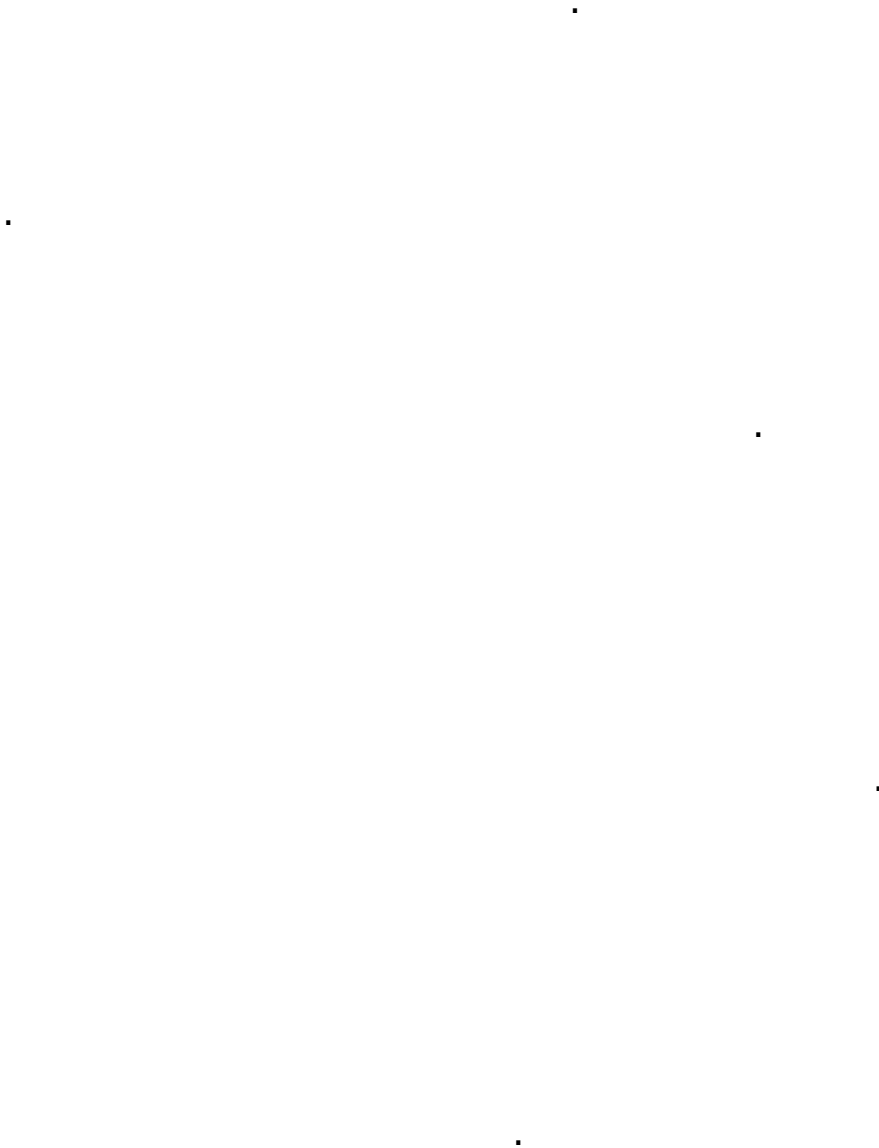
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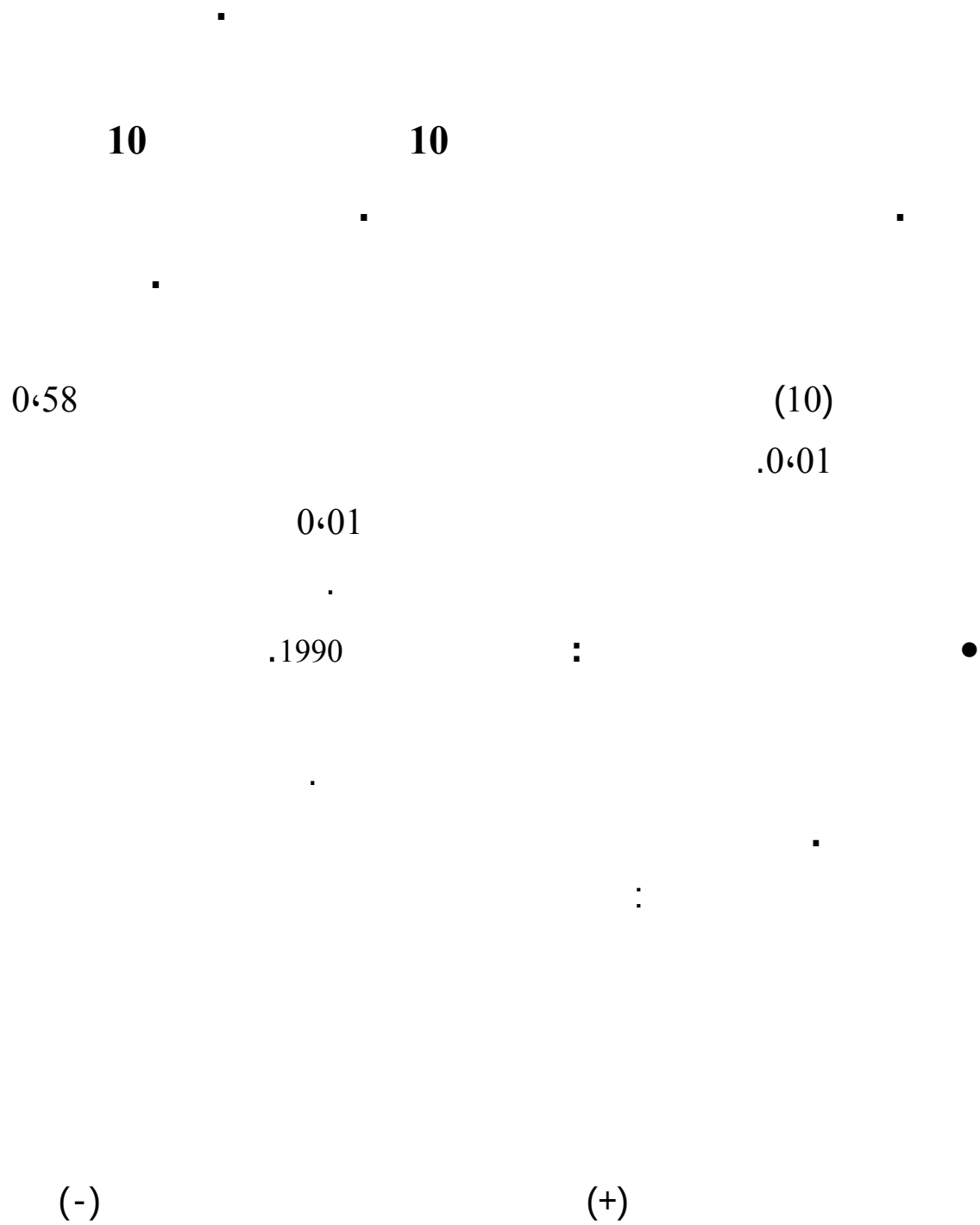
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(1997

Carolyn Hartsough 1980

Nadine Lambert

(Children Attention Adjustment)(Jonathan Sandoval.

.(Attention Deficit Hypercativity)

Sassone)

(1981 Lambert Sandoval

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.Inattention.. .1

Impulsivity . .2

Attention Deficit Disorder Hypercativity.. .3

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DSM III-R. ADHD .7

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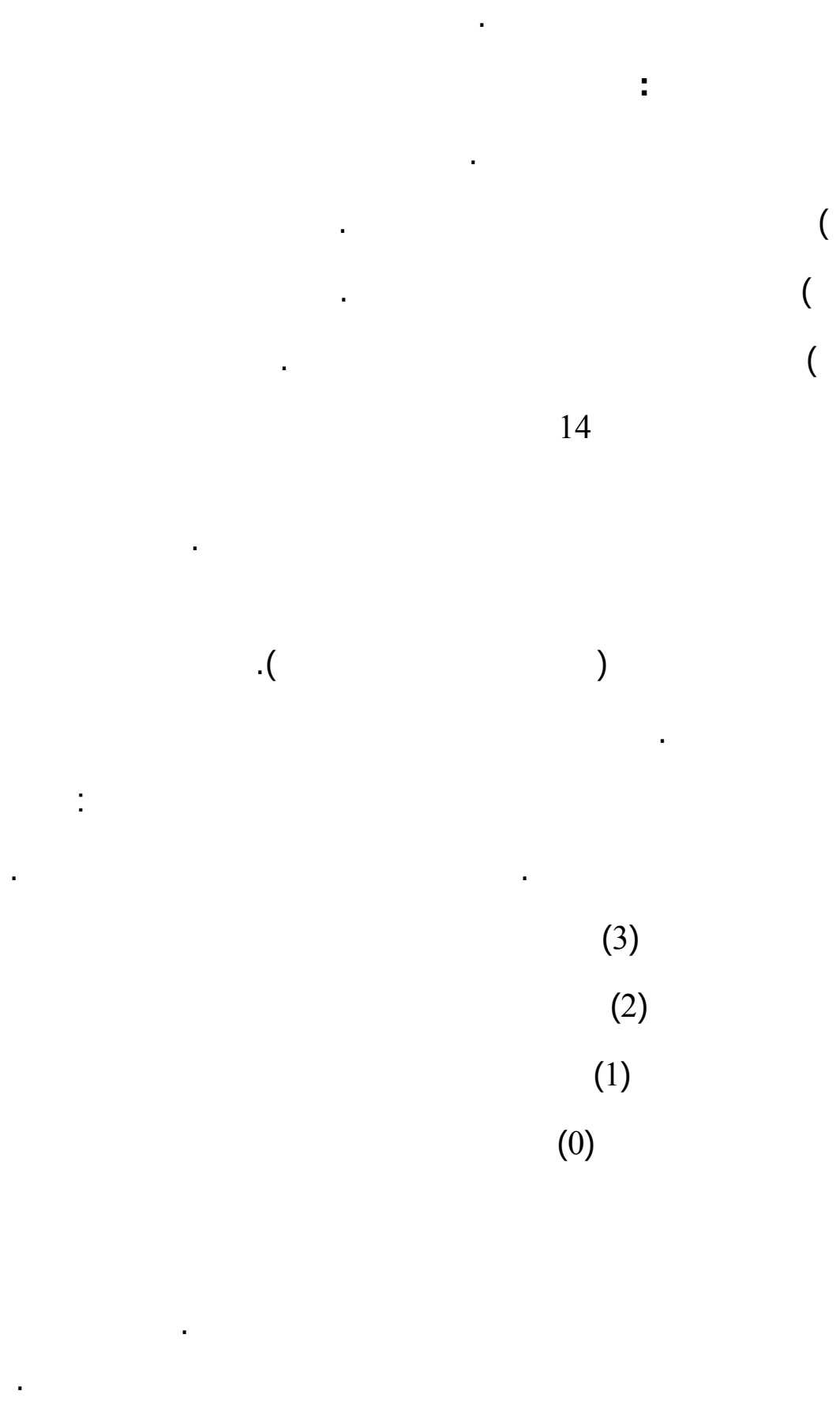
(Buss And Durkee 1957

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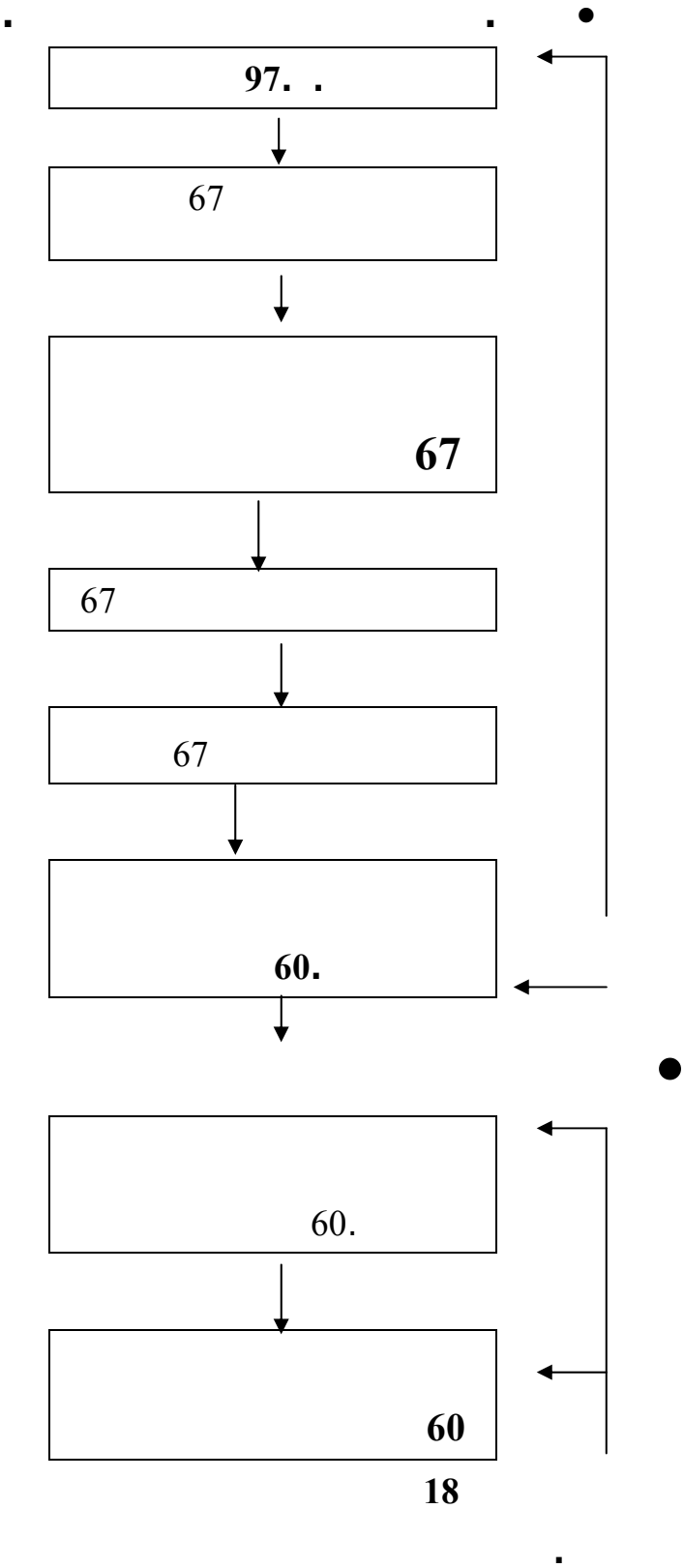
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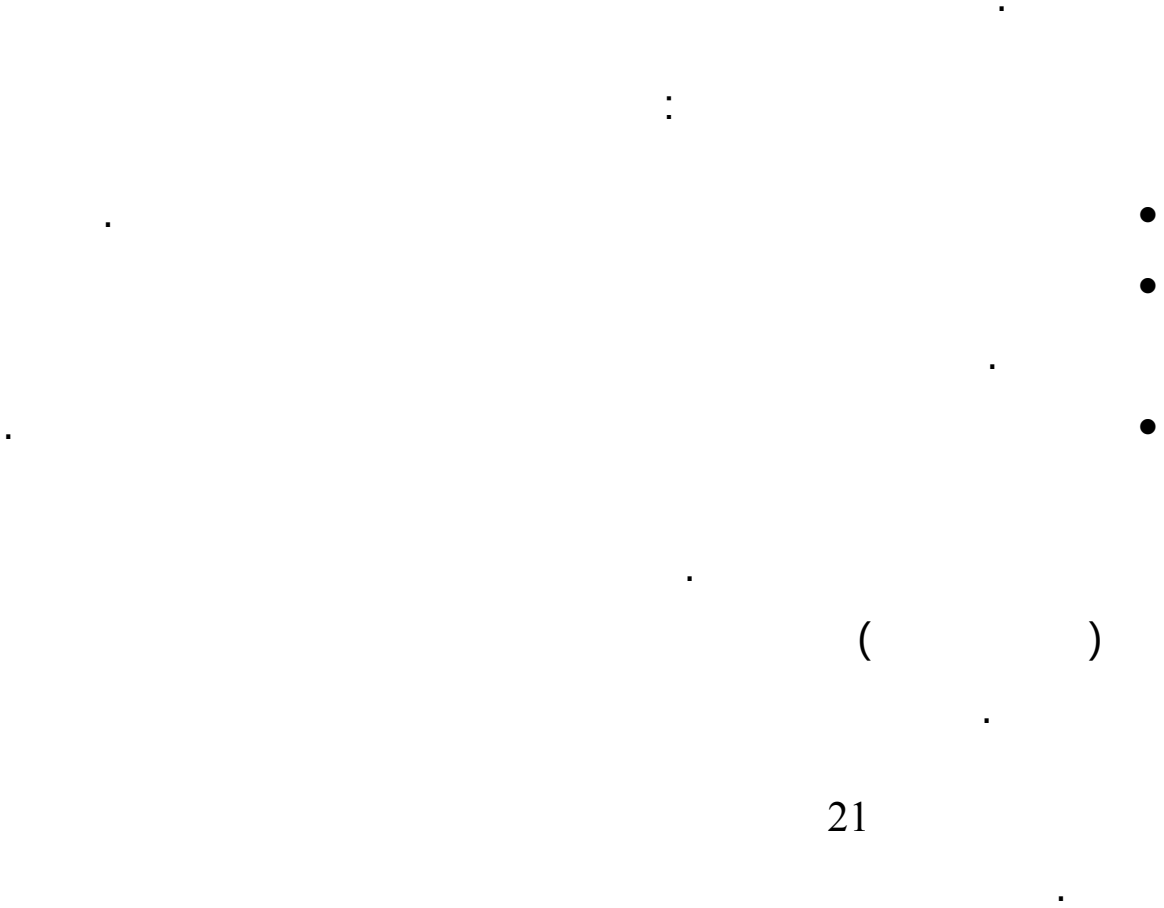
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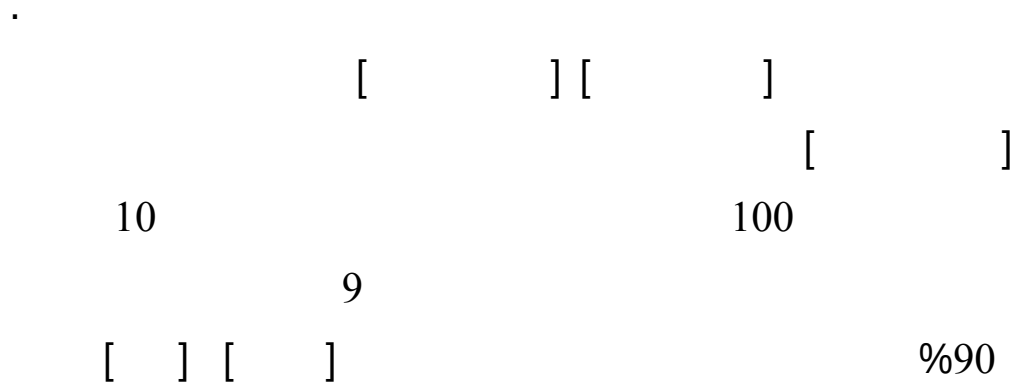
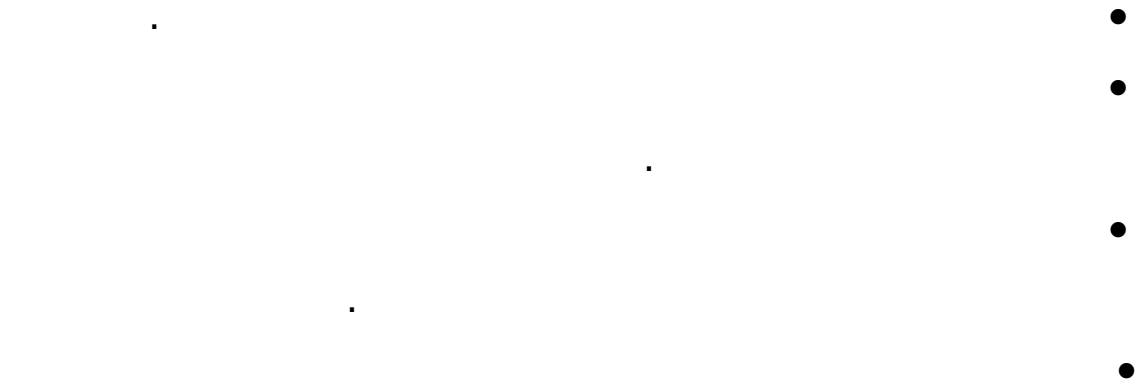
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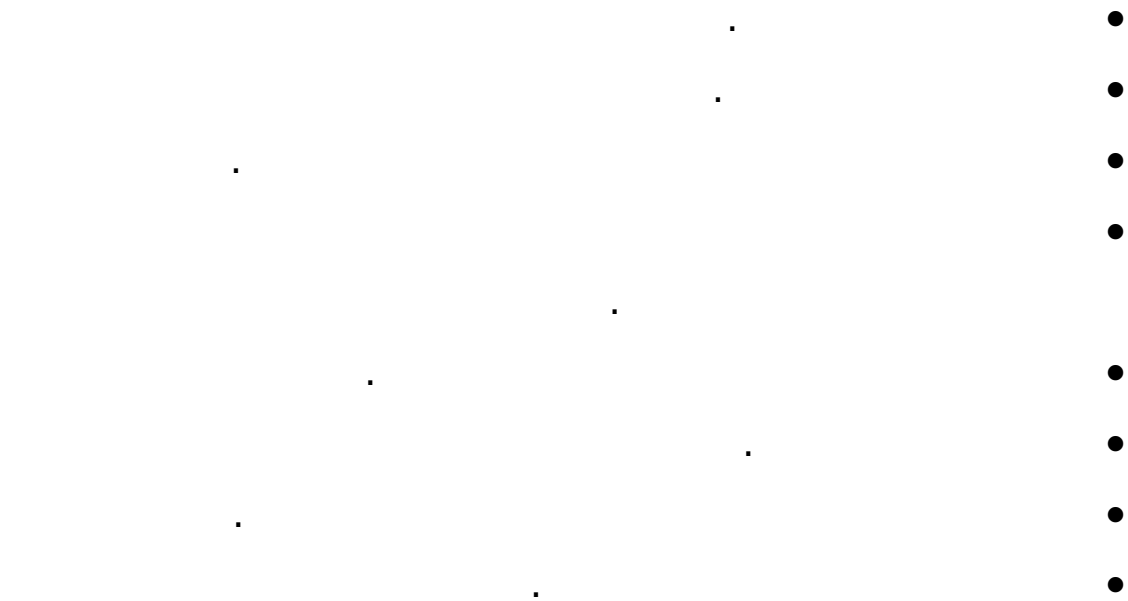
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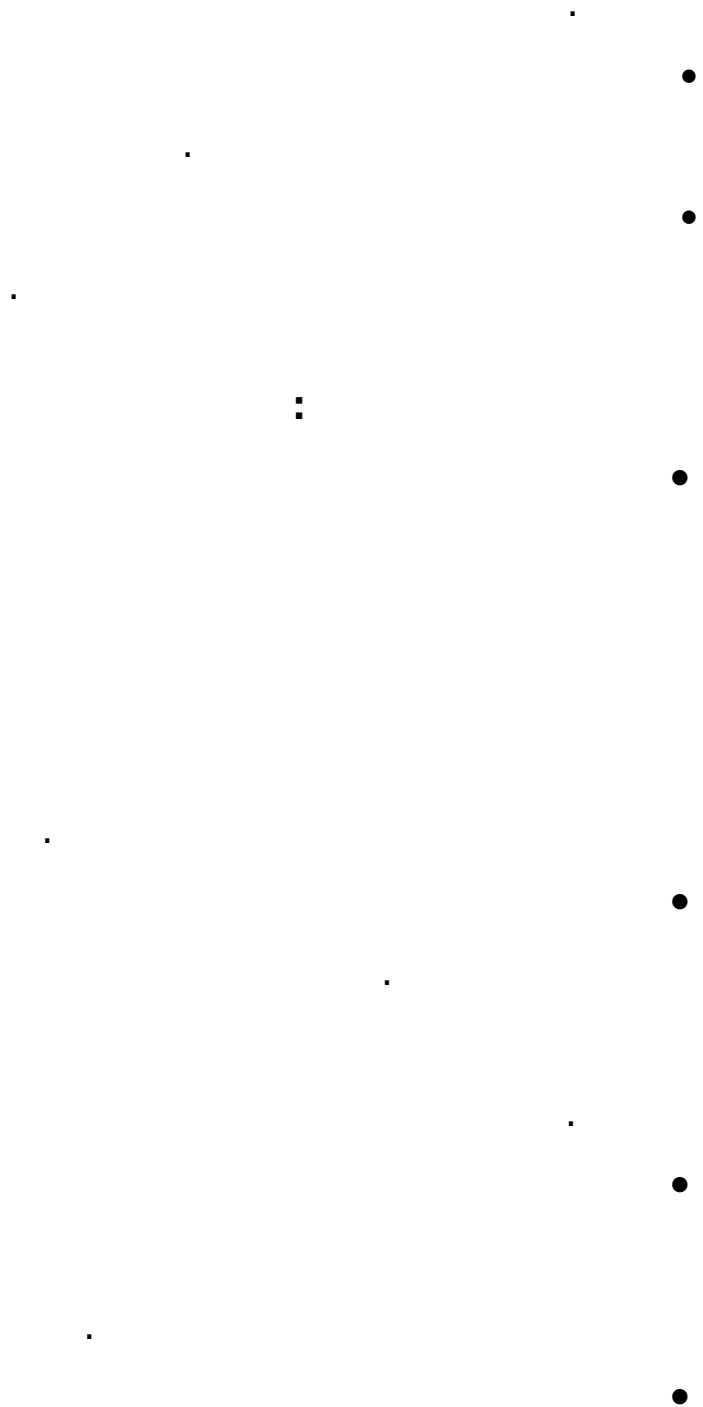
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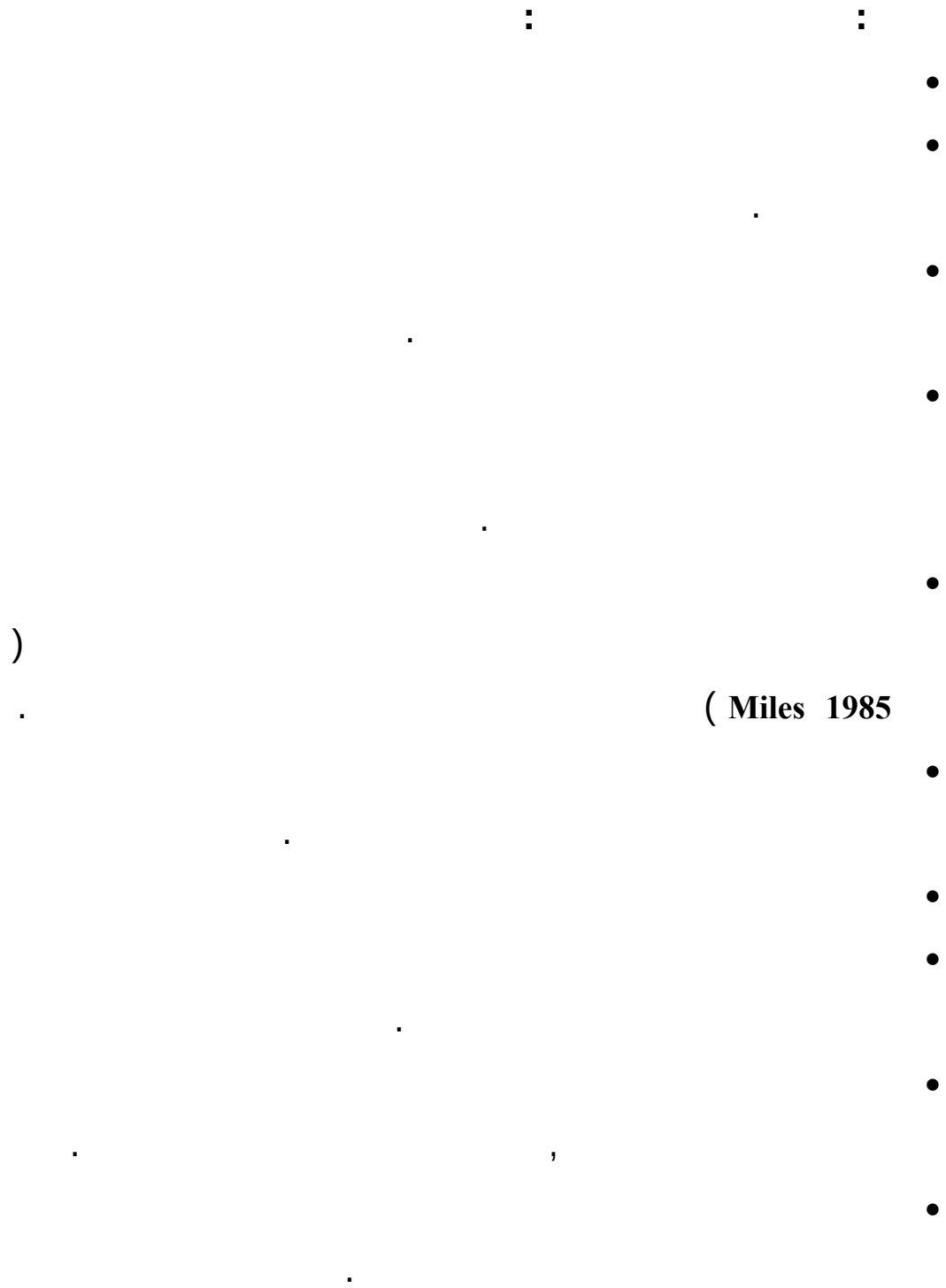
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95	120	114	26	.1
101,6	124	126	30	.2
92,85	126	117	27	.3
101,5	130	132	32	.4
92,3	130	120	28	.5
102,3	126	129	31	.6
97,5	120	117	27	.7
91,9	124	114	26	.8
98,3	122	120	28	.9
110	120	132	32	.10
104,8	123	129	31	.11
100,8	125	126	30	.12
98,36	122	120	28	.13
051	120	126	30	.14
106,45	124	132	32	.15
102,3	126	129	31	.16
91	125	114	26	.17
95,12	123	117	27	.18
100	122	123	29	.19
100	126	126	30	.20
103,2	125	129	31	.21
103,2	123	261	24	.22
103,2	122	261	25	.23
92,06	126	611	26	.24
92,08	125	611	26	.25
92,08	125	116	30	.26
95,23	126	201	25	.27
97,61	126	123	26	.28
101,61	124	126	30	.29
101,5	130	132	32	.30
92,3	130	201	27	.31
96,77	124	120	28	.32
96	125	201	28	.33
100,8	125	261	30	.34
100	126	126	30	.35
101,6	124	126	30	.36

104	124	129	31	.37
97,5	123	120	28	.38
95,9	122	117	27	.39
94,35	124	117	27	.40
100,8	122	123	29	.41
99,19	124	123	29	.42
91,9	124	114	26	.43
95,9	122	117	27	.44
100	126	126	30	.45
91,19	124	114	26	.46
99 ;19	124	123	29	.47
95,9	122	117	27	.48
110	120	132	32	.49
103	122	126	30	.50
100,8	125	261	30	.51
94,35	124	117	27	.52
100	123	123	29	.53
91,93	124	114	26	.54
92,85	126	117	27	.55
94,35	124	117	27	.56
91,2	125	114	26	.57
100,81	122	132	32	.58
92,85	126	117	27	.59
93,6	125	117	27	.60
5886,88				

5886,88

98,11

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95,9	122	117	27	.2
92,2	120	111	25	.3
96,9	130	126	30	.4
93,6	125	117	27	.5
98,36	122	120	28	.6
103,27	122	126	30	.7
95	120	114	26	.8
101,1	112	114	26	.9
100	110	111	25	.10
94,35	124	117	27	.11
98,36	122	120	28	.12
114,54	110	126	30	.13
95,12	123	117	27	.14
95	120	114	26	.15
104	124	129	31	.16
105	120	126	30	.17
103	122	126	30	.18
96,77	124	120	28	.19
100	120	120	28	.20
98,36	122	201	28	.21
96,77	124	120	28	.22
98,36	122	120	28	.23
97,5	120	117	27	.24
109,56	115	126	30	.25
96,77	124	120	28	.26
95,9	122	117	27	.27
96	125	120	28	.28
100,8	125	126	30	.29
101,53	130	132	32	.30
101,69	118	120	28	.31
110	120	132	32	.32
105,73	122	129	31	.33
96	125	120	28	.34
104	123	129	31	.35
105	120	126	30	.36
105	120	126	30	.37
95,12	123	117	27	.38
106,45	124	132	32	.39

105,73	122	129	31	.40
97,56	123	120	28	.41
95,79	119	114	26	.42
108,19	122	132	32	.43
105,88	119	126	30	.44
101,69	118	120	28	.45
112,82	117	132	32	.46
95	120	114	26	.47
99,15	118	117	27	.48
109,32	118	129	31	.49
105	120	126	30	.50
103,27	122	126	30	.51
95	120	141	26	.52
95,9	122	132	27	.53
106,45	124	132	32	.54
106,77	118	126	30	.55
97,43	117	411	26	.56
95	120	114	26	.57
105	120	126	30	.58
111,86	118	132	32	.59
97,5	120	117	27	.60
98,36	122	120	28	.61
614,1				

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614,1

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102,36

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172

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4,3	40	172	.1
3,8	45	172	.2
4,09	42	172	.3
3,4	50	172	.4
3,1	55	172	.5
3,01	57	172	.6
3,01	57	172	.7
2,8	60	172	.8
2,7	62	172	.9
3,8	45	172	.10
3,1	55	172	.11
2,64	65	172	.12
2,7	62	172	.13
2,29	75	172	.14
2,7	62	172	.15
2,29	75	172	.16
2,26	76	172	.17
2,3	72	172	.18
2,29	75	172	.19
2,1	80	172	.20
2,64	65	172	.21
3,7	46	172	.22
3,58	48	172	.23
3,1	55	172	.24
2,64	65	172	.25
2,3	72	172	.26
2,64	65	172	.27
2,52	68	172	.28

2,56	67	172	.29
2,7	62	172	.30
2,29	75	172	.31
2,64	65	172	.32
3,8	45	172	.33
2,29	75	172	.34
3,8	45	172	.35
2,9	59	172	.36
2,3	77	172	.37
2,9	59	172	.38
3,58	48	172	.39
3,3	52	172	.40
3,1	55	172	.41
2,64	65	172	.42
2,3	72	172	.43
2,29	75	172	.44
2,68	64	172	.45
2,56	67	172	.46
3,58	48	172	.47
3,51	49	172	.48
3,1	55	172	.49
2,64	65	172	.50
2,7	62	172	.51
3,1	55	172	.52
2,6	65	172	.53
2,3	72	172	.54
2,64	65	172	.55
2,7	62	172	.56
2,68	64	172	.57
2,64	65	172	.58
2,6	66	172	.59
2,3	72	172	.60
2,93	3514	10320	

3514

10320

2,93 .

172

86	2	172	1.
57,3	3	172	2.
86	2	172	3.
43	4	172	4.
43	4	172	5.
86	2	172	6.
43	4	172	7.
43	4	172	8.
43	4	172	9.
43	4	172	10.
86	2	172	11.
86	2	172	12.
86	2	172	13.
86	2	172	14.
86	2	172	15.
86	2	172	16.
172	1	172	17.
172	1	172	18.
57,3	3	172	19.
34,4	5	172	20.
86	2	172	21.
86	2	172	22.
86	2	172	23.
86	2	172	24.
86	2	172	25.
57,3	3	172	26.
43	4	172	27.
86	2	172	28.
172	1	172	29.
86	2	172	30.

34.4	5	172	31.
43	4	172	32.
43	4	172	33.
34.4	5	172	34.
43	4	172	35.
43	4	172	36.
43	4	172	37.
86	2	172	38.
57.3	3	172	39.
86	2	172	40.
86	2	172	41.
172	1	172	42.
172	1	172	43.
86	2	172	44.
43	4	172	45.
57.3	3	172	46.
86	2	172	47.
86	2	172	48.
86	2	172	49.
86	2	172	50.
86	2	172	51.
86	2	172	52.
57.3	3	172	53.
43	4	172	54.
34.4	5	172	55.
86	2	172	56.
57.3	3	172	57.
86	2	172	58.
86	2	172	59.
57.3	3	172	60.
	163	10320	

163

10320

63.31

DSM	CD	Adhd	H	Add	I	N	
23	16	44	12	25	8	16	1
22	14	45	13	22	8	14	2
20	15	44	10	20	7	12	3
19	16	45	10	20	6	16	4
22	14	46	13	24	8	13	5
20	16	44	11	18	6	12	6
24	16	44	12	20	8	11	7
22	15	45	13	22	7	14	8
23	13	44	12	24	8	15	9
22	15	45	12	20	6	13	10
20	14	40	11	22	5	16	11
20	16	42	12	24	8	12	12
23	14	44	11	20	7	16	13
22	12	41	12	24	6	10	14
20	14	46	14	20	6	14	15
20	16	40	12	24	7	10	16
22	15	41	10	20	8	12	17
20	16	42	11	18	6	14	18
20	15	40	12	20	7	15	19
20	16	44	10	22	6	16	20
22	14	45	12	24	6	13	21
22	15	44	10	22	5	15	22
20	16	46	12	20	6	10	23
20	16	44	10	20	6	12	24
22	16	45	12	18	7	8	25
20	15	43	12	17	6	14	26
20	16	44	12	22	6	12	27
20	16	40	12	20	6	12	28
20	16	41	13	20	7	13	29
22	14	42	11	18	6	16	30
23	15	40	11	22	6	15	31
22	16	40	11	20	5	14	32
22	15	40	12	18	6	12	33

22	16	44	10	19	6	13	34
23	14	45	10	20	6	14	35
22	15	44	12	22	5	15	36
24	16	41	11	21	6	8	37
22	14	40	12	22	7	12	38
20	16	42	10	21	6	16	39
21	14	45	10	20	6	14	40
22	16	42	12	19	5	12	41
20	15	40	12	20	5	8	42
22	14	41	10	22	6	14	43
22	16	42	10	20	6	11	44
20	12	40	12	21	5	11	45
20	14	41	12	20	6	12	46
22	15	45	13	20	5	16	47
22	16	46	11	24	7	14	48
20	16	41	11	20	6	15	49
24	12	40	13	22	6	13	50
22	16	44	13	20	5	12	51
20	13	40	13	20	7	16	52
22	16	38	11	21	6	14	53
20	15	38	12	19	5	14	54
20	14	44	13	22	6	12	55
20	15	42	10	20	7	13	56
20	16	40	12	20	6	11	57
22	14	40	11	22	6	14	58
23	14	38	10	20	7	12	59
23	16	44	9	20	6	14	60

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,(N)

(I)

(H)

(Add)

. (Adhd)

(CD)

. (DSM)

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DSM	CD	Adhd	H	Add	I	N	
8	9	22	6	14	4	7	1
7	10	16	5	12	4	6	2
8	8	20	5	13	3	7	3
8	10	22	4	12	4	7	4
9	8	20	5	14	3	6	5
10	8	17	6	12	4	5	6
10	8	20	5	13	3	8	7
8	8	16	6	14	4	8	8
9	10	22	4	12	4	7	9
8	8	22	4	12	4	8	10
8	9	20	4	14	3	7	11
7	10	22	5	14	4	7	12
8	10	18	5	12	6	7	13
8	10	20	6	12	4	6	14
9	9	22	6	14	3	8	15
10	10	20	6	12	3	7	16
10	10	18	4	14	4	6	17
8	9	20	5	12	3	7	18
9	10	22	6	14	4	6	19
8	12	20	4	14	4	7	20
6	8	22	5	14	4	6	21
7	10	22	6	12	3	6	22
8	10	20	5	12	12	7	23
8	10	20	4	14	3	6	24
8	8	22	6	14	3	7	25
7	8	20	5	14	3	6	26
8	9	20	6	12	4	6	27
8	8	22	5	12	3	6	28
9	8	20	6	12	4	7	29
10	10	22	5	13	3	6	30

10	12	20	4	12	5	7	31
8	10	22	5	13	3	6	32
9	9	16	6	12	4	7	33
8	10	20	5	14	4	6	34
10	10	22	4	12	5	6	35
9	9	20	4	12	4	7	36
9	8	16	4	12	4	8	37
10	10	20	5	12	4	7	38
9	10	22	6	12	4	6	39
8	10	20	5	14	4	7	40
10	8	20	5	14	4	6	41
9	9	20	5	13	3	5	42
10	10	20	5	13	3	6	43
8	10	20	5	12	3	7	44
9	10	20	4	12	3	6	45
10	10	22	5	14	4	5	46
8	10	20	5	13	4	6	47
8	10	22	6	14	4	6	48
10	9	22	6	12	4	6	49
8	8	20	5	13	3	6	50
7	10	18	5	12	4	6	51
8	10	16	5	12	5	5	52
8	9	18	5	14	4	7	53
9	10	20	4	12	4	6	54
10	10	20	5	14	3	6	55
10	10	22	6	12	3	6	56
8	9	22	5	12	4	5	57
9	10	18	6	14	5	6	58
8	10	20	5	14	4	6	59
9	9	22	5	12	3	7	60

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8

Y2	Y1	
9	3	1
4	2	2
25	5	3
36	6	4
25	5	5
25	5	6
36	6	7
100	10	8
25	5	9
16	4	10
36	6	11
16	4	12
16	4	13
9	3	14
9	3	15
16	4	16
9	3	17
4	2	18
9	3	19
4	2	20
4	2	21
9	3	22
9	3	23
9	3	24
36	6	25
64	8	26
81	9	27
9	3	28
16	4	29
9	3	30
16	4	31
9	3	32
4	2	33
16	4	34
16	4	35

7

X2	Xi	
256	16	1
289	17	2
289	17	3
324	18	4
324	18	5
256	16	6
100	10	7
256	16	8
225	15	9
676	26	10
289	17	11
256	16	12
169	13	13
49	7	14
169	13	15
289	17	16
676	26	17
289	17	18
324	18	19
529	23	20
676	26	21
289	17	22
676	26	23
289	17	24
324	18	25
169	13	26
289	17	27
49	7	28
289	17	29
169	13	30
169	13	31
676	26	32
49	7	33
169	13	34
196	14	35

16	4	36		324	18	36
49	7	37		289	17	37
36	6	38		289	17	38
16	4	39		324	18	39
16	4	40		169	13	40
16	4	41		676	26	41
16	4	42		289	17	42
25	5	43		324	18	43
36	6	44		289	17	44
49	7	45		49	7	45
36	6	46		256	16	46
16	4	47		676	26	47
36	6	48		169	13	48
36	6	49		289	17	49
16	4	50		529	23	50
16	4	51		324	18	51
36	6	52		324	18	52
36	6	53		324	18	53
16	4	54		169	13	54
9	3	55		289	17	55
100	10	56		324	18	56
49	7	57		289	17	57
9	3	58		169	13	58
100	10	59		289	17	59
36	6	60		289	17	60
1558	282			18243	1009	

10

Y2	Y1	
144	12	1
25	5	2
25	5	3
144	12	4
100	10	5
225	15	6
36	6	7
100	10	8
25	5	9
144	12	10
196	14	11
36	6	12
121	11	13
144	12	14
144	12	15
25	5	16
196	14	17
144	12	18
100	10	19
196	14	20
16	4	21
144	12	22
25	5	23
144	12	24
144	12	25
25	5	26
196	14	27
100	10	28
144	12	29
144	12	30
25	5	31
144	12	32
25	5	33

9

X2	Xi	
324	18	1
256	16	2
225	15	3
400	20	4
484	22	5
381	19	6
484	22	7
225	15	8
400	20	9
381	19	10
81	9	11
225	15	12
256	16	13
49	7	14
144	12	15
196	14	16
256	16	17
484	22	18
144	12	19
484	22	20
256	16	21
225	15	22
81	9	23
256	16	24
381	19	25
81	9	26
225	15	27
144	12	28
400	20	29
324	18	30
144	12	31
484	22	32
144	12	33

144	12	34		196	14	34
144	12	35		361	19	35
196	14	36		81	9	36
121	11	37		225	15	37
144	12	38		144	12	38
36	6	39		484	22	39
16	4	40		144	12	40
144	12	41		484	22	41
196	14	42		256	16	42
16	4	43		196	14	43
144	12	44		256	16	44
25	5	45		196	14	45
144	12	46		361	19	46
144	12	47		81	9	47
100	10	48		49	7	48
36	6	49		484	22	49
16	4	50		255	15	50
144	12	51		361	19	51
100	10	52		400	20	52
36	6	53		81	9	53
36	6	54		256	16	54
144	12	55		144	12	55
144	12	56		196	14	56
100	10	57		256	16	57
144	12	58		144	22	58
16	4	59		144	12	59
144	12	60		196	14	60
6320	580			15705	937	

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12

	Xi	
16	4	1
4	2	2
25	5	3
25	5	4
4	2	5
49	7	6
25	5	7
16	4	8
4	2	9
16	4	10
16	4	11
4	2	12
25	5	13
4	2	14
16	4	15
25	5	16
16	4	17
100	10	18
100	10	19
16	4	20
16	4	21
4	2	22
25	5	23
100	10	24
16	4	25
4	2	26
25	5	27
16	4	28
100	10	29
25	5	30
4	2	31
16	4	32
25	5	33
4	2	34

11

	Xi	
400	20	1
529	23	2
676	26	3
529	23	4
400	20	5
324	18	6
441	21	7
289	17	8
400	20	9
441	21	10
676	26	11
676	26	12
529	23	13
324	18	14
400	20	15
400	20	16
400	20	17
676	26	18
400	20	19
289	17	20
144	12	21
144	12	22
324	18	23
441	21	24
676	26	25
529	23	26
400	20	27
144	12	28
289	17	29
324	18	30
289	17	31
400	20	32
400	20	33
324	18	34

16	4	35		529	23	35
25	5	36		529	23	36
49	7	37		441	21	37
4	2	38		484	22	38
16	4	39		324	18	39
16	4	40		441	21	40
16	4	41		529	23	41
4	2	42		400	20	42
100	10	43		441	21	43
144	12	44		400	20	44
16	4	45		289	17	45
16	4	46		529	23	46
25	5	47		400	20	47
49	7	48		441	21	48
4	2	49		400	20	49
16	4	50		529	23	50
16	4	51		441	21	51
16	4	52		400	20	52
36	6	53		676	26	53
16	4	54		400	20	54
16	4	55		289	17	55
36	6	56		324	18	56
49	7	57		529	23	57
25	5	58		676	26	58
4	2	59		529	23	59
16	4	60		400	20	60
1632	280			25797	1229	

Group Statistics

	VAR00001	N	Mean	Std. Deviation	Std. Error Mean
N	1.00	60	13.12	2.06	.27
	.00	60	6.43	.77	9.91E-02
I	1.00	60	6.27	.88	.11
	.00	60	3.87	1.26	.16
ADD	1.00	60	20.78	1.79	.23
	.00	60	12.87	.93	.12
H	1.00	60	11.47	1.11	.14
	.00	60	5.07	.71	9.16E-02
ADHD	1.00	60	42.42	2.26	.29
	.00	60	20.15	1.80	.23
CD	1.00	60	14.97	1.13	.15
	.00	60	9.40	.96	.12
DSM	1.00	60	21.32	1.31	.17
	.00	60	8.60	.99	.13

		Independent Samples Test								
		Levene's Test for Equality of Variances	t-test for Equality of Means							
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
N	Equal variances assumed	37.038	.000	23.558	118	.000	6.68	.28	6.12	7.25
	Equal variances not assumed			23.558	75.072	.000	6.68	.28	6.12	7.25
I	Equal variances assumed	.161	.689	12.126	118	.000	2.40	.20	2.01	2.79
	Equal variances not assumed			12.126	105.748	.000	2.40	.20	2.01	2.79
ADD	Equal variances assumed	17.448	.000	30.461	118	.000	7.92	.26	7.40	8.43
	Equal variances not assumed			30.461	88.758	.000	7.92	.26	7.40	8.43
H	Equal variances assumed	20.341	.000	37.581	118	.000	6.40	.17	6.06	6.74
	Equal variances not assumed			37.581	100.250	.000	6.40	.17	6.06	6.74
ADHD	Equal variances assumed	12.027	.001	59.592	118	.000	22.27	.37	21.53	23.01
	Equal variances not assumed			59.592	112.340	.000	22.27	.37	21.53	23.01
CD	Equal variances assumed	.829	.364	29.011	118	.000	5.57	.19	5.19	5.95
	Equal variances not assumed			29.011	114.865	.000	5.57	.19	5.19	5.95
DSM	Equal variances assumed	12.386	.001	59.931	118	.000	12.72	.21	12.30	13.14
	Equal variances not assumed			59.931	110.138	.000	12.72	.21	12.30	13.14

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