

Annex A

Relationship between the level of descriptors used in the Survey of Adult Skills (PIAAC) and other skills surveys



In presenting the results of the Survey of Adult Skills (PIAAC), the descriptors used to describe the characteristics of the tasks at each proficiency level in literacy and numeracy differ from those used when presenting the results of the International Adult Literacy Survey (IALS) and the Adult Literacy and Life Skills Survey (ALL). This is the result of:

- the introduction of the domain of *literacy*, which replaces the previously separate domains of prose and document literacy used in IALS and ALL; and
- a change in the way in which the "proficiency" of individuals and the "difficulty" of items are defined in the Survey of Adult Skills compared to the IALS and ALL.

A single literacy scale

The construct of "literacy" measured in the Survey of Adult Skills encompasses prose and document literacy, which were reported on separate scales in previous international adult literacy surveys, and also incorporates the reading of digital texts. Irrespective of any change to the definition of proficiency levels, the development of a new, single literacy scale necessitated a review of the descriptors of the proficiency levels used for reporting results.

The definition of proficiency levels

The Survey of Adult Skills locates items and individuals on the three proficiency scales using a response probability (RP) value of 0.67. In other words, individuals are located on the scale at the point at which he or she has a 67% probability of successfully completing a random set of items representing the construct measured. Items are located on the scale at the point at which they have a 67% probability of being successfully completed by a random sample of the adult population. This differs from the approach used in IALS and ALL in which a response probability of 0.80 was used. This change was made so that the approach used to define what it means for a person to be at a certain proficiency level was similar to that used in PISA (see OECD, 2010, p. 48).

The change in response probability has no consequences for either the estimation of the proficiency or the precision of the scales. The estimation of proficiency is independent of the selection of an RP value, as it is a function of the level of correct response to the test items. The precision of the scale is a function of the number of items in the scale, which is again independent of the choice of RP value. What the change in RP value does affect is the way proficiency is defined and described. In effect, "proficiency" is defined in terms of a different probability of successfully completing tasks. In the case of the shift from an RP value of 0.80 to one of 0.67, the result is that proficiency is described in terms of more **difficult** items that are completed with a **lower probability** of success.

This can be seen in the Table A.1 below, which presents item maps for literacy and numeracy when response probabilities of 0.67 and 0.80 are used. For example, the literacy item "Summer Streets" is located at 350 on the scale when a response probability of 0.67 is used as opposed to 369 when 0.80 is used. Similarly, the numeracy item "TV" moves from 279 to 260 when the response probability changes from 0.67 to 0.80.

Table A 1	1/21	Location of items on the literacy scale using RP67 and RP80
Iable A.I	1/4	Location of Items on the interacy scale using NFO7 and NFO0

Score	RP67	RP80
400		Baltic Stock Market C308A116
398		Library Search C323P005
397		CANCO 306B111
389		Work-related Stress C329P003
386		Apples <i>P317P001</i>
376	Library Search C323P005	Work-related Stress C329P002
374	Work-related Stress C329P003	
372	CANCO C306B111	
371	Baltic Stock Market C308A116	
369		Summer Streets C327P004
368		Milk Label P324P002
364		Library Search C323P002
359	Apples P317P001	
358		Baltic Stock Market C308A118
357		Generic Medicines C309A322
350	Summer Streets C327P004	
349	Work-related Stress C329P002	
348	Library Search C323P002	
347	Milk Label P324P002	
346		Distances-Mexican Cities C315B512
343		Library Search C323P004
342		Summer Streets C327P003
341		International Calls C313A410
337	Baltic Stock Market C308A118	
336		Milk Label P324P003
333		Civil Engineering C318P003
331		Contact Employer C304B711
330		Summer Streets C327P002
329	Generic Medicines C309A322 Library Search C323P004	International Calls C313A411 Memory Training C310A407 TMN Anti-theft C305A218



Table A.1 [2/2] Location of items on the literacy scale using RP67 and RP80

Society The	lable A.1 [2/2]	[2/2] Location of items on the literacy scale using RP67 and RP80		
321 Summer Street. C127P003 Croit Engineering. C134P001	Score	RP67	RP80	
318	324	International Calls C313A410		
148	321		Summer Streets C327P001	
316		Summer Streets C327P003	Civil Engineering C318P001	
315 International Calis C313A411 Ballic Stock Market C368A119 Lakeside Fram Rinn C32P003				
Baltic Stock Author C 2008A1 19				
1.24	315	International Calls C313A411	D-14:- C41-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
312 Milk Label P3247003 Lakeside Fun Run C3227004 MTDCO Apprin C13727004 MTDCO C13727004 MTDCO C1372704 MTDCO C1372	314			
TAN Anti-theft C305A218	312	Memory Training C310A407		
Summer Streets C1271002 Lakeside Fun Run C1227001	312	Milk Label <i>P324P003</i>		
MEDCO Appirin C3078402 Lakeside Fun Run C3278001 Lakeside Fun Run C3278003 Lakeside Fun Run C3278004 Lakeside Fun Run C3278005 Lak	309	TMN Anti-theft C305A218		
306 Summer Streets C32770012 Lakeside Fun Run C3277001 305 Ultrary Surants C3278001 International Calls C313A413 308 Civil Engineering C3187001 Discussion forum C3207003 Discussion forum C3207003 Discussion forum C3207004 Discussion forum C3207001 Discussion forum C3207003 Discussion forum C3207004 Discussion forum C3207005 Discussion forum C3207004 Discussion forum C3207005 Discussion forum C3207005 Discussion forum C3207004 Discussion forum C3207005 Disc	308			
Discussion forum C32P003 International Calls C33A413 International Calls C33A414 Interna	306	Summer Streets C327P002	·	
Section Sect		Sammer streets e3271 ooz		
303 Civil Ingineering C118P001 Discussion forum C320P003 Discussion forum C320P004	305			
Discussion forum C207003				
398 Summer Streets C327P001 Contact Employer C3048710 297	303	Civil Engineering C318P001		
298	301			
297	298	Summer Streets C327P001		
295				
293	295		Baltic Stock Market C308A121	
International Calls C313A414 Generic Medicines C309A319	294	Lakeside Fun Run C322P003		
291	293	Lakeside Fun Run C322P004	Discussion forum C320P001	
289				
MEDCO Aspirin C3078402			Generic Medicines C309A319	
286				
Discussion forum G320P003 International Calls G313A413 Contact Employer G304B710		MEDCO Aspirin C307B402	A I DOMESTICA	
International Calls C313A413 Memory Training C310A406	287	Di	Apples <i>P31/P003</i>	
285	286	International Calls C313A413	Memory Training C310A406	
281	285			
International Calls C313A412 Internet Poll C321P002 Internet Poll C321P002 Internet Poll C321P002 Internet Poll C321P001 Internet Poll C321P002 Lakeside Fun Run C322P002 Lakeside Fun Run C322P002 Lakeside Fun Run C322P005 Internet Poll C305A215 CANCO C306B110 CANCO C	283	Lakeside Fun Run C322P001	Apples P317P002	
Internet Poll C321P002 Internet Poll C321P002 TANN Anti-theft C305A215 Internet Poll C321P001 Internet Poll C321P002 Internet Poll C321P001 Internet Poll C321P001 Internet Poll C321P001 Internet Poll C321P001 Internet Poll C321P002 Internet Poll C321P003 Internet	281	Discussion forum C320P001		
279 Baltic Stock Market C308A121 TMN Anti-theft C305A215 272	280		International Calls C313A412	
Internet Poll C321P001				
Canceric Medicines C309A319 Internet Poll C321P001	279		TMN Anti-theft C305A215	
265 Apples P317P003 Lakeside Fun Run C322P002 264 Lakeside Fun Run C322P005 262 Apples P317P002 CANCO C306B110 260 TMN Anti-theft C305A215 Baltic Stock Market C308A117 259 Baltic Stock Market C308A120 257 International Calls C313A412 Generic Medicines C309A320 251 Internet Poll C321P001 Generic Medicines C309A320 244 CANCO C306B110 Lakeside Fun Run C322P005 Generic Medicines C309A321 239 Baltic Stock Market C308A117 Generic Medicines C309A320 239 Baltic Stock Market C308A117 Guadeloupe P330P001 231 Dutch Women C311B701 Dutch Women C311B701 219 Generic Medicines C309A321 Guadeloupe P330P001 Election Results C302BC02 201 Dutch Women C311B701 MEDCO Aspirin C30B7401 MEDCO Aspirin C30B7401 163 Election Results C302BC02	272	Generic Medicines C309A319	Internet Poll C321P001	
Lakeside Fun Run C322P005	271		Baltic Stock Market C308A120	
262 Apples P317P002 261 CANCO C306B110 260 TMN Anti-theft C305A215 259 Baltic Stock Market C308A117 258 Generic Medicines C309A320 257 International Calls C313A412 254 Baltic Stock Market C308A120 251 Internet Poll C321P001 244 CANCO C306B110 Lakeside Fun Run C322P005 Generic Medicines C309A321 239 Baltic Stock Market C308A117 239 Generic Medicines C309A320 238 Internet Poll C321P002 234 Guadeloupe P330P001 231 Dutch Women C311B701 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 169 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 161 Employment Ad C300AC02	265	Apples <i>P317P003</i>	Lakeside Fun Run C322P002	
261 CANCO C306B110 260 TMN Anti-theft C305A215 259 Baltic Stock Market C308A117 258 Generic Medicines C309A320 257 International Calls C313A412 254 Baltic Stock Market C308A120 251 Internet Poll C321P001 244 CANCO C306B110 Lakeside Fun Run C322P005 Generic Medicines C309A321 239 Baltic Stock Market C308A117 239 Generic Medicines C309A320 238 Internet Poll C321P002 234 Guadeloupe P330P001 231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02			Lakeside Fun Run C322P005	
260 TMN Anti-theft C305A215 259 Baltic Stock Market C308A117 258 Generic Medicines C309A320 257 International Calls C313A412 254 Baltic Stock Market C308A120 251 Internet Poll C321P001 244 CANCO C306B110 Lakeside Fun Run C322P005 Lakeside Fun Run C322P002 Generic Medicines C309A321 239 Baltic Stock Market C308A117 239 Generic Medicines C309A320 238 Internet Poll C321P002 231 Guadeloupe P330P001 231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02		Apples <i>P317P002</i>		
Baltic Stock Market C308A117		TABLE CIL & CORPANIE	CANCO C306B110	
Ceneric Medicines C309A320		TMN Anti-theit C305A215	D-14:- C41-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
257 International Calls C313A412 254 Baltic Stock Market C308A120 251 Internet Poll C321P001 244 CANCO C306B110 Lakeside Fun Run C322P002 Generic Medicines C309A321 239 Baltic Stock Market C308A117 239 Generic Medicines C309A320 238 Internet Poll C321P002 234 Guadeloupe P330P001 231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02				
254 Baltic Stock Market C308A120 251 Internet Poll C321P001 244 CANCO C306B110 Lakeside Fun Run C322P005 249 Lakeside Fun Run C322P002 239 Baltic Stock Market C308A117 239 Generic Medicines C309A320 238 Internet Poll C321P002 234 Guadeloupe P330P001 231 Generic Medicines C309A321 239 Generic Medicines C309A320 230 Election Results C309A320 231 Dutch Women C311B701 240 Generic Medicines C309A321 250 Guadeloupe P330P001 260 Election Results C302BC02 270 MEDCO Aspirin C30B7401 280 MEDCO Aspirin C30B7401 280 Election Results C302BC02 280 Election Results C302BC02		International Calls C313A412	Generic Medicines C505/1520	
251				
Lakeside Fun Run C322P005 240				
239 Baltic Stock Market C308A117 239 Generic Medicines C309A320 238 Internet Poll C321P002 234 Guadeloupe P330P001 231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02	244			
239 Generic Medicines C309A320 238 Internet Poll C321P002 234 Guadeloupe P330P001 231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02	240	Lakeside Fun Run C322P002	Generic Medicines C309A321	
238 Internet Poll C321P002 234 Guadeloupe P330P001 231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02	239	Baltic Stock Market C308A117		
234 Guadeloupe P330P001 231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02	239	Generic Medicines C309A320		
231 Dutch Women C311B701 219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02	238	Internet Poll C321P002		
219 Generic Medicines C309A321 207 Guadeloupe P330P001 203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02	234		Guadeloupe P330P001	
207 Guadeloupe P330P001 Election Results C302BC02 203 Election Results C302BC02 201 Dutch Women C311B701 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 Employment Ad C300AC02 162 Election Results C302BC02			Dutch Women C311B701	
203 Election Results C302BC02 201 Dutch Women C311B701 190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02				
201 Dutch Women C311B701 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 Employment Ad C300AC02 162 Election Results C302BC02 Employment Ad C300AC02		Guadeloupe P330P001	Floation Popular C202PC02	
190 MEDCO Aspirin C30B7401 169 MEDCO Aspirin C30B7401 163 Employment Ad C300AC02 162 Election Results C302BC02		Dutch Women C311B701	Election Results C502BC02	
169 MEDCO Aspirin C30B7401 Employment Ad C300AC02 163 Election Results C302BC02		Butth Women CSTID/UT	MEDCO Aspirin C30R7401	
163 Employment Ad C300AC02 162 Election Results C302BC02		MEDCO Aspirin C30B7401		
162 Election Results C302BC02			Employment Ad C300AC02	
		Election Results C302BC02		
	136	Employment Ad C300AC02		
117 SGIH C301AC05	117		SGIH C301AC05	
75 SGIH C301AC05		SCHI 6201 AG05		



Table A.2 [1/2] Location of items on the numeracy scale using RP67 and RP80

Table A.2 [1/2]	Location of items on the	numeracy scale using RP67 ar	nd RP80	
Score		RP67		RP80
397			Dioxin (MOD)	C612A518
388			Educational Level	C632P001
375	Dioxin (MOD)	C612A518		
361			Compound Interest	P610A515
359			Weight History	C660P004
357			Wine	P623A618
354	Educational Level	C632P001		
349			Package	C657P001
348	Compound Interest	P610A515		
343			Cooper Test	C665P002 C641P001
		Brook sto	Amoeba	
341	Wine	P623A618	5.4	55044500
335			BMI	C624A620
334			Study Fees	C661P002
333			Inflation	C620A612
332	Weight History	C660P004	_	
331			Peanuts	C634P002
330			NZ Exports	C644P002
328			Fertilizer	C651P002
327			Classified	C622A615
326	Cooper Test	C665P002		
324	Amoeba	C641P001	Study Fees Peanuts Orchestra Tickets	C661P001 C664P001 C634P001
323			Мар	C617A605
322			Temp Scale	C611A517
320	BMI	C624A620		
		232 1320	Six Pack 1	C(10A(00 C(3CB001
319			Lab Report	C618A608 C636P001
318	Peanuts	C634P002		
317	NZ Exports	C644P002		
315	Study Fees	C661P002 C657P001	Мар	C617A606
	Package		Map	C017A000
314	Fertilizer	C651P002		
308	Study Fees	C661P001		
308	Inflation	C620A612		
307	Orchestra Tickets	C664P001		
305	Peanuts	C634P001		
303	Map	C617A605		
302			Tiles	C619A609
301	Classified	C622A615		
299			Weight History	C660P003 C608A513
			Tree	C660F003 C606A313
297	Six Pack 1	C618A608		
296	Temp Scale	C611A517		
294	Lab Report	C636P001	Solution	C606A509
292			Wine	C623A617
289			Educational Level	C632P002
287	Map	C617A606	Urban Population	C650P001
285			Temp Scale	C611A516
284			Photo	C605A506
283			Inflation	C620A610
282	Tiles	C619A609		
280			Wine	C623A616
278			Price Tag	C602A503 P666P001
			Rope	
277			Rug Production	C646P002
276	Wine	C623A617 C660P003		
	Weight history			
273	Solution	C606A509	D : - 7	6600 1 700
271			PriceTag	C602A502
270		0.001.01	Logbook	C613A520
267	Inflation	C620A610	- ·	0/5-5
267			Path	C655P001
266	Educational Level	C632P002		
263			Airport Timetable	C645P001
262			Photo	C605A507
261	Temp Scale	C611A516		
260	Urban Population Tree	C650P001 C608A513	TV	C607A510
259	Photo Price Tag	C605A506 C602A503		
258	Wine	C623A616	Cooper Test	C665P001
256	Rug Production	C646P002		
256 255		C646P002	Candles	C615A603
		C646P002	Candles Gas Gauge	C615A603 C604A505
255		C646P002 C613A520		



Table A.2 [2/2] Location of items on the numeracy scale using RP67 and RP80

[2/2]	Location of items on the numeracy scale using NFO7 and NFO0			
Score	RP67		RP80	
249	Path	C655P001	Photo Six Pack 1	C605A508 C618A607
242	Photo	C605A507		
240	Rope	P666P001		
239	TV	C607A510		
238	Price Tag	C602A502		
234	Cooper Test	C665P001		
231	Candles Airport Timetable	C615A603 C645P001		
228	Gas Gauge	C604A505		
227	Photo	C605A508		
221	BMI Candles	C624A619 C615A602		
219			Odometer	P640P001
217	Six Pack 1	C618A607		
212			Watch	C614A601
201			Price Tag	C602A501
200			Parking Map	C635P001
195	Odometer	P640P001		
185	Watch	C614A601		
183			Election Results	C600AC04
179	Parking Map	C635P001		
168	Price Tag	C602A501		
167			Bottles	C601AC06
155	Election Results	C600AC04		
129	Bottles	C601AC06		

As the score point ranges defining the proficiency levels for literacy and numeracy have not changed between IALS and ALL and the Survey of Adult Skills, the group of items used to describe each proficiency level – i.e. those that are located in the score-point range that defines a proficiency level – changes. This necessitated revising the descriptors of the proficiency levels. Tables A.3 and A.4 present the descriptors used in the Survey of Adult Skills and the previous surveys.

Table A.3 [1/2] Descriptors of literacy proficiency levels

lab	le A.3 [1/2]	Descriptors of literacy proficiency levels		
Level	Score range	Survey of Adult Skills (PIAAC) Literacy (RP67)	ALL/IALS Prose literacy (RP80)	ALL/IALS Document literacy (RP80)
1	Lower than 225	Most of the tasks at this level require the respondent to read relatively short digital or print continuous, non-continuous, or mixed texts to locate a single piece of information which is identical to or synonymous with the information given in the question or directive. Some tasks may require the respondent to enter personal information onto a document, in the case of some non-continuous texts. Little, if any, competing information is present. Some tasks may require simple cycling through more than one piece of information. Knowledge and skill in recognising basic vocabulary, evaluating the meaning of sentences, and reading of paragraph text is expected.	Most of the tasks at this level require the respondent to read relatively short text to locate a single piece of information which is identical to or synonymous with the information given in the question or directive. If plausible but incorrect information is present in the text, it tends not to be located near the correct information.	Tasks at this level tend to require the respondent either to locate a piece of information based on a literal match or to enter information from personal knowledge onto a document. Little, if any, distracting information is present.
2	226-275	At this level the complexity of text increases. The medium of texts may be digital or printed, and texts may be comprised of continuous, non-continuous, or mixed types. Tasks in this level require respondents to make matches between the text and information, and may require paraphrase or low-level inferences. Some competing pieces of information may be present. Some tasks require the respondent to: • cycle through or integrate two or more pieces of information based on criteria, • compare and contrast or reason about information requested in the question, or • navigate within digital texts to access-and-identify information from various parts of a document.	Some tasks at this level require respondents to locate a single piece of information in the text; however, several distractors or plausible but incorrect pieces of information may be present, or low-level inferences may be required. Other tasks require the respondent to integrate two or more pieces of information or to compare and contrast easily identifiable information based on a criterion provided in the question or directive.	Tasks at this level are more varied than those in Level 1. Some require the respondents to match a single piece of information; however, several distractors may be present, or the match may require low-level inferences. Tasks in this level may also ask the respondent to cycle through information in a document or to integrate information from various parts of a document.
3	276-325	Texts at this level are often dense or lengthy, including continuous, non-continuous, mixed, or multiple pages. Understanding text and rhetorical structures become more central to successfully completing tasks, especially in navigation of complex digital texts. Tasks require the respondent to identify, interpret, or evaluate one or more pieces of information, and often require varying levels of inference. Many tasks require the respondent construct meaning across larger chunks of text or perform multi-step operations in order to identify and formulate responses. Often tasks also demand that the respondent disregard irrelevant or inappropriate text content to answer accurately. Competing information is often present, but it is not more prominent than the correct information.	Tasks at this level tend to require respondents to make literal or synonymous matches between the text and information given in the task, or to make matches that require low-level inferences. Other tasks ask respondents to integrate information from dense or lengthy text that contains no organisational aids such as headings. Respondents may also be asked to generate a response based on information that can be easily identified in the text. Distracting information is present, but is not located near the correct information.	Some tasks at this level require the respondent to integrate multiple pieces of information from one or more documents. Others ask respondents to cycle through rather complex tables or graphs which contain information that is irrelevant or inappropriate to the task.



Table A.3 [2/2] Descriptors of literacy proficiency levels

Level	Score range	Survey of Adult Skills (PIAAC) Literacy (RP67)	ALL/IALS Prose literacy (RP80)	ALL/IALS Document literacy (RP80)
4	326-375	Tasks at this level often require respondents to perform multiple-step operations to integrate, interpret, or synthesise information from complex or lengthy continuous, non-continuous, mixed, or multiple type texts. Complex inferences and application of background knowledge may be needed to perform successfully. Many tasks require identifying and understanding one or more specific, non-central ideas in the text in order to interpret or evaluate subtle evidence-claim or persuasive discourse relationships. Conditional information is frequently present in tasks at this level and must be taken into consideration by the respondent. Competing information is present and sometimes seemingly as prominent as correct information.	These tasks require respondents to perform multiple-feature matches and to integrate or synthesise information from complex or lengthy passages. More complex inferences are needed to perform successfully. Conditional information is frequently present in tasks at this level and must be taken into consideration by the respondent.	Tasks at this level, like those at the previous levels, ask respondents to perform multiple-feature matches, cycle through documents, and integrate information; however, they require a greater degree of inference. Many of these tasks require respondents to provide numerous responses but do not designate how many responses are needed. Conditional information is also present in the document tasks at this level and must be taken into account by the respondent.
5	Higher than 376	At this level, tasks may require the respondent to search for and integrate information across multiple, dense texts; construct syntheses of similar and contrasting ideas or points of view; or evaluate evidenced based arguments. Application and evaluation of logical and conceptual models of ideas may be required to accomplish tasks. Evaluating reliability of evidentiary sources and selecting key information is frequently a key requirement. Tasks often require respondents to be aware of subtle, rhetorical cues and to make high-level inferences or use specialised background knowledge.	Some tasks at this level require the respondent to search for information in dense text which contains a number of plausible distractors. Others ask respondents to make high-level inferences or use specialised background knowledge. Some tasks ask respondents to contrast complex information.	Tasks at this level require the respondent to search through complex displays that contain multiple distractors, to make high-level text-based inferences, and to use specialised knowledge.

	Table A.4 Descriptors of numeracy proficiency levels		
Level	Score range	Survey of Adult Skills (PIAAC) (RP67)	ALL (RP80)
1	Lower than 225	Tasks at this level require the respondent to carry out basic mathematical processes in common, concrete contexts where the mathematical content is explicit with little text and minimal distractors. Tasks usually require one-step or simple processes involving e.g. counting, sorting, performing basic arithmetic operations, understanding simple percentages such as 50%, locating and identifying elements of simple or common graphical or spatial representations.	Tasks at this level require the respondent to show an understanding of basic numerical ideas by completing simple tasks in concrete, familiar contexts where the mathematical content is explicit with little text. Tasks consist of simple, one-step operations such as counting, sorting dates, performing simple arithmetic operations or understanding common and simple percentages such as 50%.
2	226-275	Tasks at this level require the respondent to identify and act upon mathematical information and ideas embedded in a range of common contexts where the mathematical content is fairly explicit or visual with relatively few distractors. Tasks tend to require the application of two or more steps or processes involving e.g. calculation with whole numbers and common decimals, percentages and fractions; simple measurement and spatial representation; estimation; and interpretation of relatively simple data and statistics in texts, tables and graphs.	Tasks at this level are fairly simple and relate to identifying and understanding basic mathematical concepts embedded in a range of familiar contexts where the mathematical content is quite explicit and visual with few distractors. Tasks tend to include one-step or two-step processes and estimations involving whole numbers, benchmark percentages and fractions, interpreting simple graphical or spatial representations, and performing simple measurements.
3	276-325	Tasks at this level require the respondent to understand mathematical information which may be less explicit, embedded in contexts that are not always familiar and represented in more complex ways. Tasks require several steps and may involve the choice of problem-solving strategies and relevant processes. Tasks tend to require the application of e.g. number sense and spatial sense; recognising and working with mathematical relationships, patterns, and proportions expressed in verbal or numerical form; and interpretation and basic analysis of data and statistics in texts, tables and graphs.	Tasks at this level require the respondent to demonstrate understanding of mathematical information represented in a range of different forms, such as in numbers, symbols, maps, graphs, texts, and drawings. Skills required involve number and spatial sense, knowledge of mathematical patterns and relationships and the ability to interpret proportions, data and statistics embedded in relatively simple texts where there may be distractors. Tasks commonly involve undertaking a number of processes to solve problems.
4	326-375	Tasks at this level require the respondent to understand a broad range of mathematical information that may be complex, abstract or embedded in unfamiliar contexts. These tasks involve undertaking multiple steps and choosing relevant problem-solving strategies and processes. Tasks tend to require analysis and more complex reasoning about e.g. quantities and data; statistics and chance; spatial relationships; and change, proportions and formulas. Tasks at this level may also require comprehending arguments or communicating well-reasoned explanations for answers or choices.	Tasks at this level require respondents to understand a broad range of mathematical information of a more abstract nature represented in diverse ways, including in texts of increasing complexity or in unfamiliar contexts. These tasks involve undertaking multiple steps to find solutions to problems and require more complex reasoning and interpretation skills, including comprehending and working with proportions and formulas or offering explanations for answers.
5	Higher than 376	Tasks at this level require the respondent to understand complex representations and abstract and formal mathematical and statistical ideas, possibly embedded in complex texts. Respondents may have to integrate multiple types of mathematical information where considerable translation or interpretation is required; draw inferences; develop or work with mathematical arguments or models; justify, evaluate and critically reflect upon solutions or choices.	Tasks at this level require respondents to understand complex representations and abstract and formal mathematical and statistical ideas, possibly embedded in complex texts. Respondents may have to integrate multiple types of mathematical information, draw inferences, or generate mathematical justification for answers.

Source (IALS/ALL): OECD/Statistics Canada (2011).

References

OECD (2010), PISA 2009 Results: What Students Know and Can Do: Student Performance in Reading, Mathematics and Science (Volume I), OECD Publishing. http://dx.doi.org/10.1787/9789264091450-en

OECD/Statistics Canada (2011), Literacy for Life: Further Results from the Adult Literacy and Life Skills Survey, OECD Publishing.



From:

The Survey of Adult Skills Reader's Companion

Access the complete publication at:

https://doi.org/10.1787/9789264204027-en

Please cite this chapter as:

OECD (2013), "The relationship between the level descriptors used in the Survey of Adult Skills (PIAAC) and those used in IALS and ALL", in *The Survey of Adult Skills: Reader's Companion*, OECD Publishing, Paris.

DOI: https://doi.org/10.1787/9789264204027-12-en

This work is published under the responsibility of the Secretary-General of the OECD. The opinions expressed and arguments employed herein do not necessarily reflect the official views of OECD member countries.

This document and any map included herein are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

You can copy, download or print OECD content for your own use, and you can include excerpts from OECD publications, databases and multimedia products in your own documents, presentations, blogs, websites and teaching materials, provided that suitable acknowledgment of OECD as source and copyright owner is given. All requests for public or commercial use and translation rights should be submitted to rights@oecd.org. Requests for permission to photocopy portions of this material for public or commercial use shall be addressed directly to the Copyright Clearance Center (CCC) at info@copyright.com or the Centre français d'exploitation du droit de copie (CFC) at contact@cfcopies.com.

