## Reading Components: Sample Word Meaning (Print Vocabulary) Items

For Word Meaning items, respondents are asked to circle the word that matches the picture.

Sample 1:



ear egg lip jar

Sample 2:



shoulder cloud flower flag

# Sample 3:



sports frog father spider

Sample 4:



fountain stage bridge bottle

## **Reading Components: Sample Sentence Processing Items**

For Sentence Processing items, respondents are asked to make a sensibility judgment about a sentence with respect to the real world or the internal logic of the sentence. The respondent reads the sentence and circles YES if the sentence makes sense or NO if the sentence does not make sense.

## Sample Sentences:

Three girls ate the song.	YES	NO
The man drove the green car.	YES	NO
The lightest balloon floated in the bright sky.	YES	NO
A comfortable pillow is soft and rocky.	YES	NO
A person who is twenty years old is older than a person who is thirty years old.	YES	NO

#### Reading Components: Sample Passage Comprehension Items

For Passage Comprehension items, respondents are asked to read a passage and circle the word that makes the sentence make sense.

#### Sample Passage:

To the editor: Yesterday, it was announced that the cost of riding the bus will increase. The price will go up by twenty percent starting next wife / month. As someone who rides the bus every day, I am upset by this foot / increase. I understand that the cost of gasoline / student has risen. I also understand that riders have to pay a fair price / snake for bus service. I am willing to pay a little more because I rely on the bus to get to object / work. But an increase / uncle of twenty percent is too much.

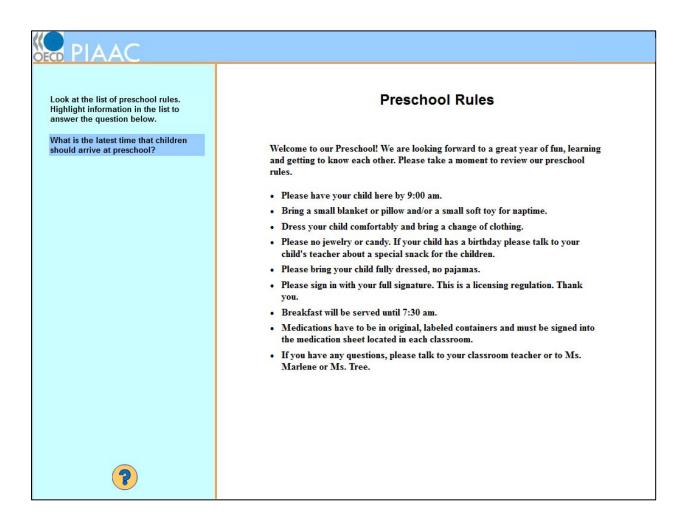
This increase is especially difficult to accept when you see the city's plans to build a new sports stadium. The government will spend millions on this project even though we already have a <a href="science/stadium">science/stadium</a>. If we delay the stadium, some of that money can be used to offset the increase in bus <a href="fares/views">fares/views</a>. Then, in a few years, we can decide if we really do need a new sports <a href="cloth/arena">cloth/arena</a>. Please let the city council know you care about this issue by attending the next public <a href="meeting/frames">meeting/frames</a>.

#### Literacy - Sample Item 1

This first literacy sample focuses on the following aspects of the literacy construct:

Cognitive Process	Access and identify
Context	Personal
Medium	Print

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 3 item. Respondents are asked answer the question shown in the left pane by highlighting information in the list of rules for a preschool.

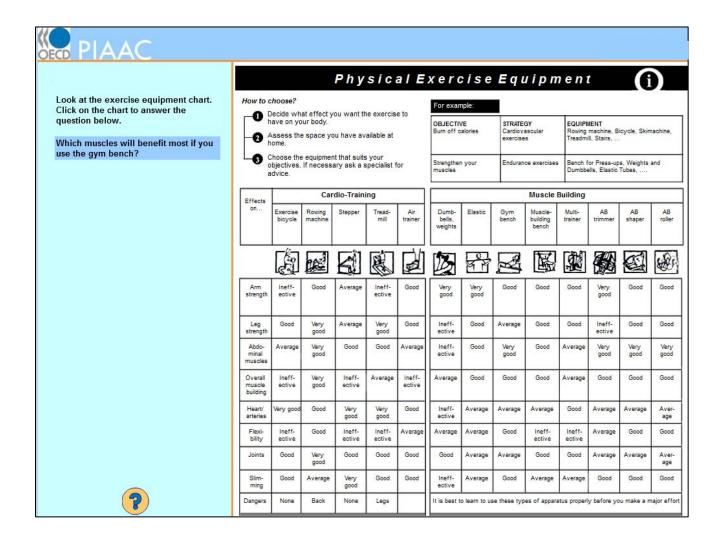


#### Literacy - Sample Item 2

Sample 2 focuses on these aspects of the literacy construct:

Cognitive Process	Access and identify
Context	Personal
Medium	Print

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 2 item. In this sample item, respondents are asked to click on the chart with information about exercise equipment to mark their response. Each of the cells and all of the images are "clickable" and multiple responses can be selected.

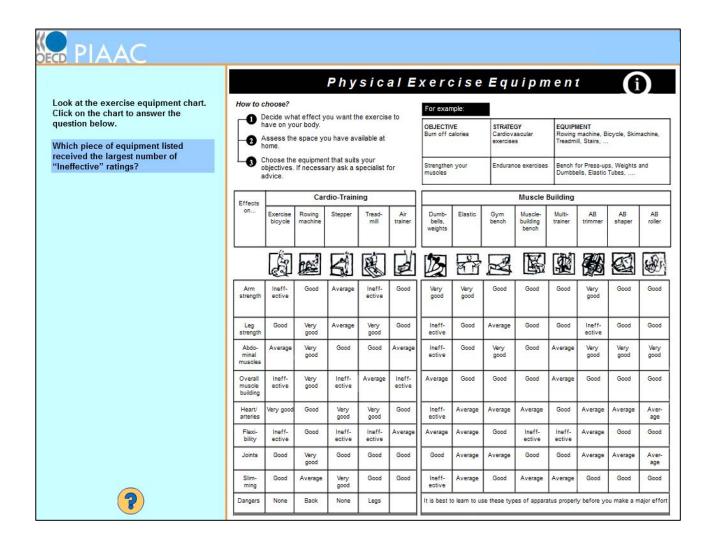


#### Literacy - Sample Item 2, continued

Most of the literacy items have more than one question associated with each stimulus. A second item in this set, shown below in Figure 3, focuses on the following aspects of the literacy construct:

Cognitive Process	Integrate and interpret
Context	Personal
Medium	Print

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 2 item.

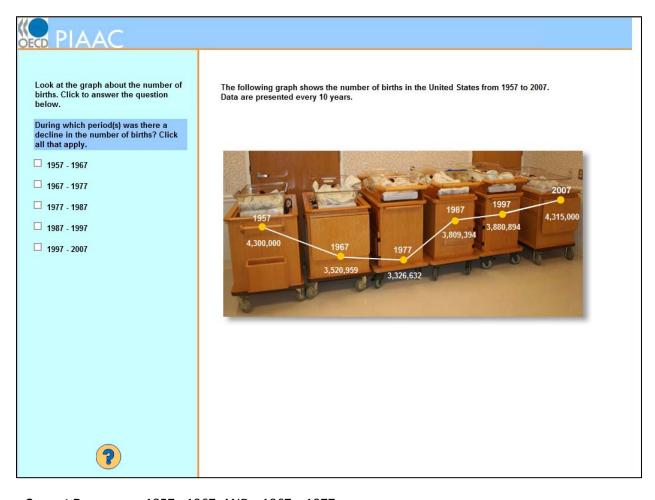


#### Numeracy - Sample Item 1

This sample item focuses on the following aspects of the numeracy construct:

Content	Data and chance
Process	Interpret, evaluate
Context	Community and society

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 3 item. Respondents are asked to respond by clicking on one or more of the time periods provided in the left pane on the screen.



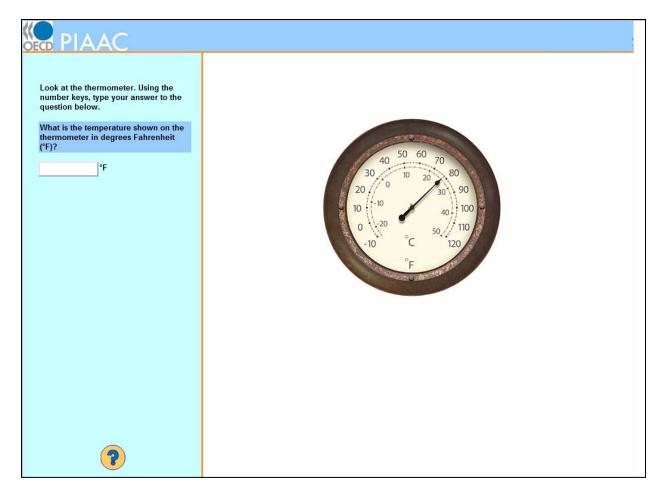
**Correct Response:** 1957 - 1967 AND 1967 - 1977

## Numeracy - Sample Item 2

This sample item focuses on the following aspects of the numeracy construct:

Content	Dimension and shape
Process	Identify, locate or access
	Act upon, use (estimate)
Context	Everyday life or Workplace

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 3 item. Respondents are asked to type in a numerical response based on the graphic provided.



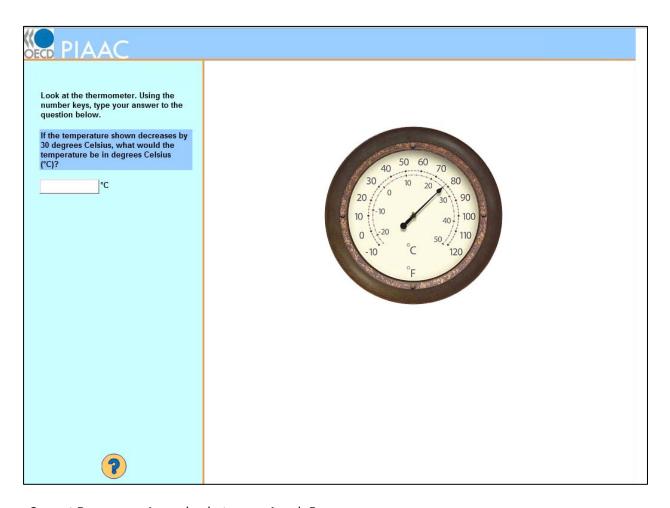
Correct Response: Any value between 77.7 and 78.3

## Numeracy – Sample Item 3

This second item in the set focuses on the following aspects of the numeracy construct:

Content	Dimension and shape
Process	Identify, locate or access
	Act upon, use (measure)
Context	Everyday life or Workplace

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 3 item. Again, respondents are asked to type in a numerical response based on the graphic provided.



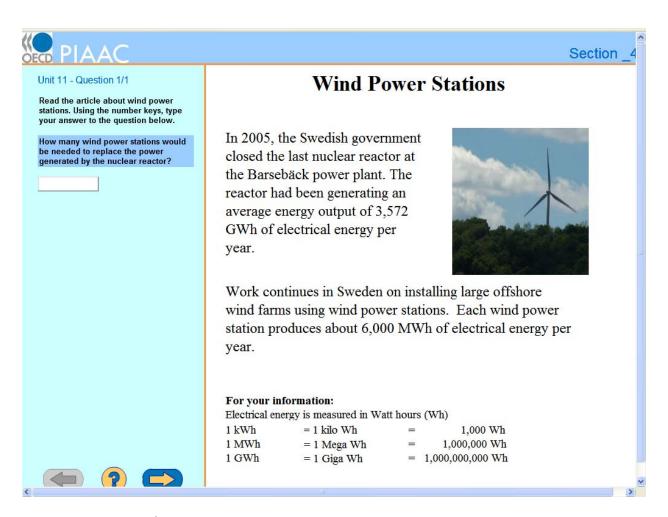
Correct Response: Any value between -4 and -5

#### Numeracy - Sample Item 4

This sample item focuses on the following aspects of the numeracy construct:

Content	Quantity and Number
Process	Act upon, use (compute)
Context	Community and society

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 4 item. Again, respondents are asked to type in a numerical response based on the information provided.



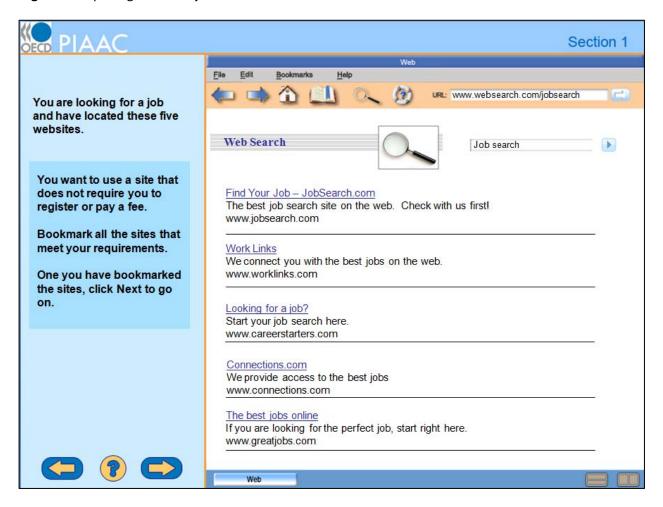
Correct Response: Either 595, 596 OR 600

#### Problem Solving in Technology Rich Environments - Sample Item 1

This is an example of an item created for the PIACC domain of Problem Solving in Technology Rich Environments. In this item, respondents must access and evaluate information in the context of a simulated job search. As shown in the item directions, located on the left side of the screen, respondents must find one or more sites that do not require users to register or pay a fee.

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 4 item.

Figure 1: Opening screen of job search task



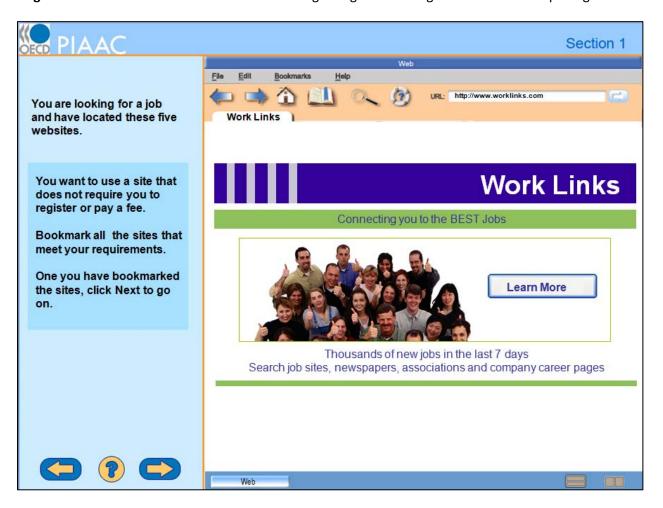
As the screen clip above shows, this item is situated in a simulated web environment that includes tools and functionality similar to those found in real-life applications. Users are able to:

- Click on links on both the results page and associated web pages,
- Navigate using the Back and Forward arrows or Home icon,
- Bookmark web pages and view or change those bookmarks.

#### Problem Solving in Technology Rich Environments - Sample Item 1, continued

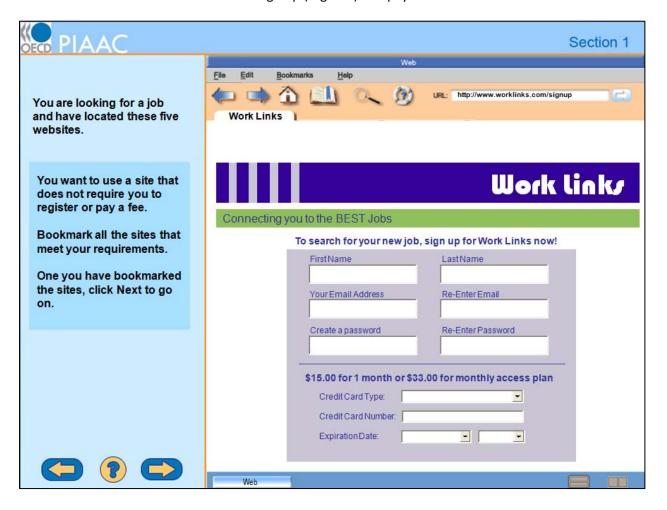
The response mode in this item is reflective of real-life actions within the environment - in this case, respondents are asked to bookmark their selection. In addition to scoring this item based on the selection of the two correct sites, the process data and path tracking that are possible in this computer-based item also contribute to the response data. For example, one of the websites, as shown in Figure 2, meets the specified criteria, but the relevant information about fees and registration is not on the opening page. If a respondent bookmarks this site as a correct answer without clicking on the "Learn More" link to view the relevant information (shown in Figure 3) we might interpret that response differently than we would if that page had been viewed. This breadth of information, combined with frameworks that specify behaviors of interest, allow us to learn more about what adults know and can do relative to the problem-solving construct as it is being measured in PIAAC.

Figure 2: Website where relevant information regarding fees and registration is not on opening screen



#### Problem Solving in Technology Rich Environments - Sample Item 1, continued

**Figure 3:** Second page of same website – relevant information is located in the directions for the form which indicate that users must sign up (register) and pay a fee

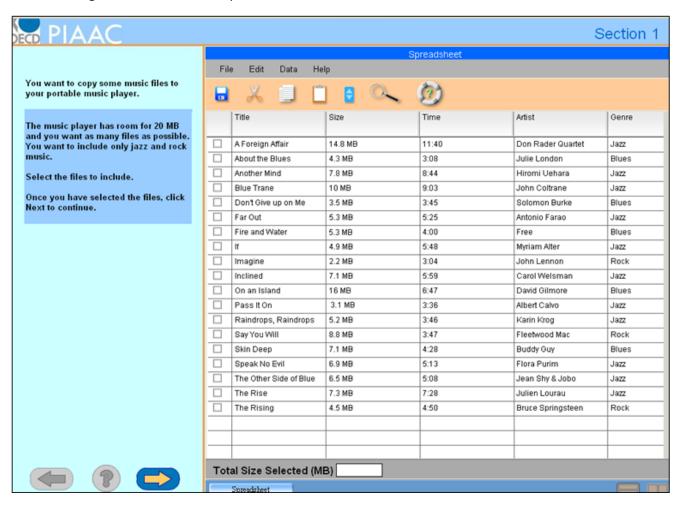


#### Problem Solving in Technology Rich Environments – Sample Item 2

In this second item, respondents need to select a set of files to download onto a portable music player. As shown in Figure 4, the item requires respondents to select files meeting specified criteria in terms of genre (jazz and rock) and file size (maximum of 20 MB).

The software includes an automatic summing functionality ("Total Size Selected") that facilitates the task by updating the total file size as files are selected or de-selected. Respondents must monitor progress as they select files, checking against the provided criteria to know when they have satisfied the constraints presented in the problem.

For PIAAC, item difficulty is reported along a five-level scale with Level 1 being the easiest items and Level 5 being the hardest. This sample is a Level 2 item.



It is also possible to sort the spreadsheet by file size and/or genre, a strategy that can increase task efficiency. The connection between the use of resources in a technology rich environment and resulting efficiencies for solving problems is one aspect of the domain that is emphasized in the framework and therefore included across items in the assessment.