

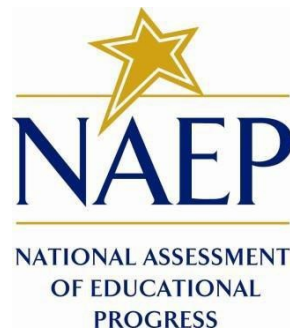
*NATIONAL CENTER FOR EDUCATION STATISTICS  
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS*

*National Assessment of Education Progress (NAEP)  
2019 and 2020  
Long-Term Trend (LTT) 2020 Update 2*

*Appendix K4*

*Long Term Trend (LTT) 2020 Student Questionnaires*

OMB# 1850-0928 v.16



March 2019  
No changes since v.15

**Appendix F of this submission provides the library of possible items to be used in the NAEP 2019 and 2020 questionnaires. This appendix (Appendix K4) includes the final version of the LTT 2020 Student questionnaires, as well as a summary of any minor, non-substantive, wording changes made as a result of a final review. In addition, note that some of the questionnaires will utilize spiraling in order to minimize respondent burden while maximizing the amount of items that can be piloted. The spiral maps for these questionnaires are also included.**

## Table of Contents

<b>Appendix K4-1: Summary of Changes Operational Age 9 Mathematics.....</b>	<b>3</b>
<b>Appendix K4-2: Operational Age 9 Mathematics.....</b>	<b>5</b>
<b>Appendix K4-3: Summary of Changes Operational Age 13 Mathematics.....</b>	<b>8</b>
<b>Appendix K4-4: Operational Age 13 Mathematics.....</b>	<b>11</b>
<b>Appendix K4-5: Summary of Changes Operational Age 17 Mathematics.....</b>	<b>14</b>
<b>Appendix K4-6: Operational Age 17 Mathematics.....</b>	<b>18</b>
<b>Appendix K4-7: Summary of Changes Operational Age 9 Reading.....</b>	<b>22</b>
<b>Appendix K4-8: Operational Age 9 Reading.....</b>	<b>25</b>
<b>Appendix K4-9: Summary of Changes Operational Age 13 Reading.....</b>	<b>28</b>
<b>Appendix K4-10: Operational Age 13 Reading.....</b>	<b>31</b>
<b>Appendix K4-11: Summary of Changes Operational Age 17 Reading.....</b>	<b>34</b>
<b>Appendix K4-12: Operational Age 17 Reading.....</b>	<b>37</b>



## Appendix K4-1: Summary of Changes Operational Age 9 Mathematics

<b>2019/2020 Operational Age 9 Long Term-Trend Mathematics Student</b>																											
Previous item	2019/2020 LTT item	D/RV/NC	Rationale																								
<p>3. Are you Hispanic or Latino? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A No, I am not Hispanic or Latino.</li> <li><input type="radio"/> B Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> C Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> D Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> E Yes, I am from some other Hispanic or Latino background.</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 10 #6)</p>	<p style="text-align: right; font-size: small;">VB331331</p> <p>1. Are you Hispanic or Latino? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A No, I am not Hispanic or Latino.</li> <li><input type="radio"/> B Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> C Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> D Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> E Yes, I am from some other Hispanic or Latino background.</li> </ul>	NC	N/A																								
<p style="text-align: right; font-size: small;">V12403</p> <p>4. Which of the following best describes you? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A White</li> <li><input type="radio"/> B Black or African American</li> <li><input type="radio"/> C Asian</li> <li><input type="radio"/> D American Indian or Alaska Native</li> <li><input type="radio"/> E Native Hawaiian or other Pacific Islander</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p.10 #7)</p>	<p style="text-align: right; font-size: small;">VB331333</p> <p>2. Which of the following best describes you? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A White</li> <li><input type="radio"/> B Black or African American</li> <li><input type="radio"/> C Asian</li> <li><input type="radio"/> D American Indian or Alaska Native</li> <li><input type="radio"/> E Native Hawaiian or other Pacific Islander</li> </ul>	NC	N/A																								
<p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Few (0–10)</li> <li><input type="radio"/> B Enough to fill one shelf (11–25)</li> <li><input type="radio"/> C Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> D Enough to fill several bookcases (more than 100)</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p.10 #8)</p>	<p style="text-align: right; font-size: small;">VB331335</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Few (0–10)</li> <li><input type="radio"/> B Enough to fill one shelf (11–25)</li> <li><input type="radio"/> C Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> D Enough to fill several bookcases (more than 100)</li> </ul>	NC	N/A																								
<p style="text-align: right; font-size: small;">V127104</p> <p>6. Do you have any of the following in your home? Select <b>one</b> answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right;">V127105</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right;">V128092</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right;">V129194</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right;">V127110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right;">V127112</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p.11 #9)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V127105	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V128092	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V129194	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V127110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V127112	<p style="text-align: right; font-size: small;">VB331336</p> <p>6. Is there a computer at home that you use?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Yes</li> <li><input type="radio"/> B No</li> </ul>	RV	This item was revised and incorporated into a matrix item (sub-item “c”) for 2019 operational
	Yes	No																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V127105																								
b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V128092																								
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V129194																								
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V127110																								
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V127112																								
<p style="text-align: right; font-size: small;">TB001101</p> <p>6. About how many pages a day do you have to read in school and for homework?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A 5 or fewer</li> <li><input type="radio"/> B 6–10</li> <li><input type="radio"/> C 11–15</li> <li><input type="radio"/> D 16–20</li> <li><input type="radio"/> E More than 20</li> </ul> <p>(2015 Grade 4, 8, and 12; Appendix F p. 376 #6 )</p>	<p style="text-align: right; font-size: small;">TB001101</p> <p>8. About how many pages a day do you have to read in school and for homework?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A 5 or fewer</li> <li><input type="radio"/> B 6–10</li> <li><input type="radio"/> C 11–15</li> <li><input type="radio"/> D 16–20</li> <li><input type="radio"/> E More than 20</li> </ul>	NC	N/A																								

## 2019/2020 Operational Age 9 Long Term-Trend Mathematics Student

Previous item	2019/2020 LTT item	D/RV/ NC	Rationale
<p>Alternate version (for VH811369)</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">                     About how many hours a day do you spend on your English/language arts homework?                      A. Less than 30 minutes a day                      B. 30 minutes up to 1 hour a day                      C. 1 up to 2 hours a day                      D. 2 up to 3 hours a day                      E. 3 up to 4 hours a day                      F. More than 4 hours a day                 </div> <p>(2018 Grade 4, 8, and 12 Appendix F p.179 alternate version for VH811369)</p>	<p style="text-align: right; font-size: small;">B001200</p> <p>9. How much time did you spend on homework yesterday?</p> <p><input type="radio"/> A No homework was assigned.</p> <p><input type="radio"/> B I had homework but didn't do it.</p> <p><input type="radio"/> C Less than 1 hour</p> <p><input type="radio"/> D 1 to 2 hours</p> <p><input type="radio"/> E More than 2 hours</p>	RV	<p>An alternate version to this LTT item was tested in cognitive lab in Writing.</p>
<p>9. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once every few weeks</p> <p><input type="radio"/> C About once a week</p> <p><input type="radio"/> D Two or three times a week</p> <p><input type="radio"/> E Every day</p> <p>(2019 Grade 4, 8, and 12; Appendix F p.12 #12)</p>	<p style="text-align: right; font-size: small;">VB331</p> <p>10. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once every few weeks</p> <p><input type="radio"/> C About once a week</p> <p><input type="radio"/> D Two or three times a week</p> <p><input type="radio"/> E Every day</p>	NC	N/A
<p>8. How many days were you absent from school in the last month?</p> <p><input type="radio"/> A None</p> <p><input type="radio"/> B 1 or 2 days</p> <p><input type="radio"/> C 3 or 4 days</p> <p><input type="radio"/> D 5 to 10 days</p> <p><input type="radio"/> E More than 10 days</p> <p>(2019 Grade 4, 8, and 12; Appendix F p.24 #11)</p>	<p style="text-align: right; font-size: small;">VB331</p> <p>11. How many days were you absent from school in the last month?</p> <p><input type="radio"/> A None</p> <p><input type="radio"/> B 1 or 2 days</p> <p><input type="radio"/> C 3 or 4 days</p> <p><input type="radio"/> D 5 to 10 days</p> <p><input type="radio"/> E More than 10 days</p>	NC	N/A
<p style="text-align: right; font-size: small;">VB331451</p> <p>9. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> A Never</p> <p><input type="radio"/> B Once in a while</p> <p><input type="radio"/> C About half of the time</p> <p><input type="radio"/> D All or most of the time</p> <p>(2015 Grade 4, 8, and 12; Appendix F p. 377 #9)</p>	<p style="text-align: right; font-size: small;">VB3314</p> <p>13. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> A Never</p> <p><input type="radio"/> B Once in a while</p> <p><input type="radio"/> C About half of the time</p> <p><input type="radio"/> D All or most of the time</p>	NC	N/A

NOTE: This column indicates whether the item was dropped (D), added (A), revised version (RV), or there was no change (NC).

## Appendix K4-2: Operational Age 9 Mathematics

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.
- A No, I am not Hispanic or Latino.
  - B Yes, I am Mexican, Mexican American, or Chicano.
  - C Yes, I am Puerto Rican or Puerto Rican American.
  - D Yes, I am Cuban or Cuban American.
  - E Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.
- A White
  - B Black or African American
  - C Asian
  - D American Indian or Alaska Native
  - E Native Hawaiian or other Pacific Islander

VB331335

3. About how many books are there in your home?
- A Few (0–10)
  - B Enough to fill one shelf (11–25)
  - C Enough to fill one bookcase (26–100)
  - D Enough to fill several bookcases (more than 100)

VB331336

4. Is there a computer at home that you use?
- A Yes
  - B No

5. About how many pages a day do you have to read in school and for homework?

- A 5 or fewer
- B 6–10
- C 11–15
- D 16–20
- E More than 20

BO001200

6. How much time did you spend on homework yesterday?

- A No homework was assigned.
- B I had homework but didn't do it.
- C Less than 1 hour
- D 1 to 2 hours
- E More than 2 hours

VB331339

7. How often do you talk about things you have studied in school with someone in your family?

- A Never or hardly ever
- B Once every few weeks
- C About once a week
- D Two or three times a week
- E Every day

VB331447

8. How many days were you absent from school in the last month?

- A None
- B 1 or 2 days
- C 3 or 4 days
- D 5 to 10 days
- E More than 10 days

9. How often do people in your home talk to each other in a language other than English?
- A Never
  - B Once in a while
  - C About half of the time
  - D All or most of the time



## Appendix K4-3: Summary of Changes Operational Age 13 Mathematics

<b>2019/2020 Operational Age 13 Long-Term Trend Mathematics Student</b>																											
Previous item	2019/2020 LTT item	D/ RV/N C	Rationale																								
<p>3. Are you Hispanic or Latino? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A No, I am not Hispanic or Latino.</li> <li><input type="radio"/> B Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> C Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> D Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> E Yes, I am from some other Hispanic or Latino background.</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 23 #6)</p>	<p style="text-align: right; font-size: small;">VB331330</p> <p>1. Are you Hispanic or Latino? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A No, I am not Hispanic or Latino.</li> <li><input type="radio"/> B Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> C Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> D Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> E Yes, I am from some other Hispanic or Latino background.</li> </ul>	NC	N/A																								
<p style="text-align: right; font-size: small;">V104088</p> <p>4. Which of the following best describes you? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A White</li> <li><input type="radio"/> B Black or African American</li> <li><input type="radio"/> C Asian</li> <li><input type="radio"/> D American Indian or Alaska Native</li> <li><input type="radio"/> E Native Hawaiian or other Pacific Islander</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 23 #7)</p>	<p style="text-align: right; font-size: small;">VB331331</p> <p>2. Which of the following best describes you? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A White</li> <li><input type="radio"/> B Black or African American</li> <li><input type="radio"/> C Asian</li> <li><input type="radio"/> D American Indian or Alaska Native</li> <li><input type="radio"/> E Native Hawaiian or other Pacific Islander</li> </ul>	NC	N/A																								
<p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Few (0–10)</li> <li><input type="radio"/> B Enough to fill one shelf (11–25)</li> <li><input type="radio"/> C Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> D Enough to fill several bookcases (more than 100)</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 23 #8)</p>	<p style="text-align: right; font-size: small;">VB331335</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Few (0–10)</li> <li><input type="radio"/> B Enough to fill one shelf (11–25)</li> <li><input type="radio"/> C Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> D Enough to fill several bookcases (more than 100)</li> </ul>	NC	N/A																								
<p style="text-align: right; font-size: small;">V102104</p> <p>6. Do you have any of the following in your home? Select <b>one</b> answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1021108</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1036762</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1091076</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1021110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1021112</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p. 24 #9)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1021108	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1036762	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V1091076	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1021110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1021112	<p style="text-align: right; font-size: small;">VB331336</p> <p>6. Is there a computer at home that you use?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Yes</li> <li><input type="radio"/> B No</li> </ul>	RV	This item was revised and incorporated into a matrix item (sub-item “c”) for 2019 operational
	Yes	No																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1021108																								
b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1036762																								
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V1091076																								
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1021110																								
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1021112																								
<p style="text-align: right; font-size: small;">TB001101</p> <p>6. About how many pages a day do you have to read in school and for homework?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A 5 or fewer</li> <li><input type="radio"/> B 6–10</li> <li><input type="radio"/> C 11–15</li> <li><input type="radio"/> D 16–20</li> <li><input type="radio"/> E More than 20</li> </ul>	<p style="text-align: right; font-size: small;">TB001101</p> <p>8. About how many pages a day do you have to read in school and for homework?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A 5 or fewer</li> <li><input type="radio"/> B 6–10</li> <li><input type="radio"/> C 11–15</li> <li><input type="radio"/> D 16–20</li> <li><input type="radio"/> E More than 20</li> </ul>	NC	N/A																								

## 2019/2020 Operational Age 13 Long-Term Trend Mathematics Student

Previous item	2019/2020 LTT item	D/ RV/N C	Rationale
(2015 Grade 4, 8, and 12; Appendix F p. 380 #6)			
<p>Alternate version (for VH811369)</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>About how many hours a day do you spend on your English/language arts homework?</p> <p>A. Less than 30 minutes a day</p> <p>B. 30 minutes up to 1 hour a day</p> <p>C. 1 up to 2 hours a day</p> <p>D. 2 up to 3 hours a day</p> <p>E. 3 up to 4 hours a day</p> <p>F. More than 4 hours a day</p> </div> <p>(2018 Grade 4, 8, and 12; Appendix F p. 193 alternate version for VH811369)</p>	<p>9. How much time did you spend on homework yesterday? <span style="float: right;"><small>B001200</small></span></p> <p><input type="radio"/> A No homework was assigned.</p> <p><input type="radio"/> B I had homework but didn't do it.</p> <p><input type="radio"/> C Less than 1 hour</p> <p><input type="radio"/> D 1 to 2 hours</p> <p><input type="radio"/> E More than 2 hours</p>	RV	An alternate version to this LTT item was tested in cognitive lab in Writing.
<p>9. How often do you talk about things you have studied in school with someone in your family? <span style="float: right;"><small>VIC8189</small></span></p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once every few weeks</p> <p><input type="radio"/> C About once a week</p> <p><input type="radio"/> D Two or three times a week</p> <p><input type="radio"/> E Every day</p> <p>(2019 Grade 4, 8, and 12; Appendix F p. 25 #12)</p>	<p>10. How often do you talk about things you have studied in school with someone in your family? <span style="float: right;"><small>VB33133</small></span></p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once every few weeks</p> <p><input type="radio"/> C About once a week</p> <p><input type="radio"/> D Two or three times a week</p> <p><input type="radio"/> E Every day</p>	NC	N/A
<p>8. How many days were you absent from school in the last month?</p> <p><input type="radio"/> A None</p> <p><input type="radio"/> B 1 or 2 days</p> <p><input type="radio"/> C 3 or 4 days</p> <p><input type="radio"/> D 5 to 10 days</p> <p><input type="radio"/> E More than 10 days</p> <p>(2019 Grade 4, 8, and 12; Appendix F p. 24 #11)</p>	<p>11. How many days were you absent from school in the last month? <span style="float: right;"><small>VB33144</small></span></p> <p><input type="radio"/> A None</p> <p><input type="radio"/> B 1 or 2 days</p> <p><input type="radio"/> C 3 or 4 days</p> <p><input type="radio"/> D 5 to 10 days</p> <p><input type="radio"/> E More than 10 days</p>	NC	N/A
<p>10. How far in school did <b>your mother</b> go?</p> <p><input type="radio"/> A She did not finish high school.</p> <p><input type="radio"/> B She graduated from high school.</p> <p><input type="radio"/> C She had some education after high school.</p> <p><input type="radio"/> D She graduated from college.</p> <p><input type="radio"/> E I don't know.</p> <p>(2019 Grade 8 and 12; Appendix F p. 25 #13)</p>	<p>13. How far in school did your mother go? <span style="float: right;"><small>VB33087</small></span></p> <p><input type="radio"/> A She did not finish high school.</p> <p><input type="radio"/> B She graduated from high school.</p> <p><input type="radio"/> C She had some education after high school.</p> <p><input type="radio"/> D She graduated from college.</p> <p><input type="radio"/> E I don't know.</p>	NC	N/A
<p>11. How far in school did <b>your father</b> go?</p> <p><input type="radio"/> A He did not finish high school.</p> <p><input type="radio"/> B He graduated from high school.</p> <p><input type="radio"/> C He had some education after high school.</p> <p><input type="radio"/> D He graduated from college.</p> <p><input type="radio"/> E I don't know.</p> <p>(2019 Grade 8 and 12; Appendix F p. 25 #14)</p>	<p>14. How far in school did your father go? <span style="float: right;"><small>VB3308</small></span></p> <p><input type="radio"/> A He did not finish high school.</p> <p><input type="radio"/> B He graduated from high school.</p> <p><input type="radio"/> C He had some education after high school.</p> <p><input type="radio"/> D He graduated from college.</p> <p><input type="radio"/> E I don't know.</p>	NC	N/A

## 2019/2020 Operational Age 13 Long-Term Trend Mathematics Student

Previous item	2019/2020 LTT item	D/ RV/N C	Rationale
<p style="text-align: right; font-size: small;">VB331451</p> <p>9. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> Ⓐ Never</p> <p><input type="radio"/> Ⓑ Once in a while</p> <p><input type="radio"/> Ⓒ About half of the time</p> <p><input type="radio"/> Ⓓ All or most of the time</p> <p>(2015 Grade 4, 8, and 12; Appendix F p. 381 #11)</p>	<p style="text-align: right; font-size: small;">VB33145</p> <p>15. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> Ⓐ Never</p> <p><input type="radio"/> Ⓑ Once in a while</p> <p><input type="radio"/> Ⓒ About half of the time</p> <p><input type="radio"/> Ⓓ All or most of the time</p>	NC	N/A
<p style="text-align: right; font-size: small;">VI126709</p> <p>22. What math class are you taking this year? Select one or more answer choices.</p> <p><input type="checkbox"/> Ⓐ Eighth-grade math</p> <p><input type="checkbox"/> Ⓑ General eighth-grade math</p> <p><input type="checkbox"/> Ⓒ Algebra I course</p> <p><input type="checkbox"/> Ⓓ First year of a two-year algebra course</p> <p><input type="checkbox"/> Ⓔ Second year of a two-year algebra course</p> <p><input type="checkbox"/> Ⓕ Algebra I (one-year course)</p> <p><input type="checkbox"/> Ⓖ Algebra II</p> <p><input type="checkbox"/> Ⓗ Geometry</p> <p><input type="checkbox"/> Ⓙ Other</p> <p>(2019 Grade 8; Appendix F p. 103 #25)</p>	<p style="text-align: right; font-size: small;">B004801</p> <p>16. What kind of mathematics are you taking this year?</p> <p><input type="radio"/> Ⓐ I am not taking mathematics this year.</p> <p><input type="radio"/> Ⓑ Regular mathematics</p> <p><input type="radio"/> Ⓒ Pre-algebra</p> <p><input type="radio"/> Ⓓ Algebra</p> <p><input type="radio"/> Ⓔ Other</p>	RV	This item was revised for 2019 operational

NOTE: This column indicates whether the item was dropped (D), added (A), revised version (RV), or there was no change (NC).

## Appendix K4-4: Operational Age 13 Mathematics

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.
- A No, I am not Hispanic or Latino.
  - B Yes, I am Mexican, Mexican American, or Chicano.
  - C Yes, I am Puerto Rican or Puerto Rican American.
  - D Yes, I am Cuban or Cuban American.
  - E Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.
- A White
  - B Black or African American
  - C Asian
  - D American Indian or Alaska Native
  - E Native Hawaiian or other Pacific Islander

VB331335

3. About how many books are there in your home?
- A Few (0–10)
  - B Enough to fill one shelf (11–25)
  - C Enough to fill one bookcase (26–100)
  - D Enough to fill several bookcases (more than 100)

VB331336

4. Is there a computer at home that you use?
- A Yes
  - B No

5. About how many pages a day do you have to read in school and for homework?
- A 5 or fewer
  - B 6–10
  - C 11–15
  - D 16–20
  - E More than 20

BO001200

6. How much time did you spend on homework yesterday?
- A No homework was assigned.
  - B I had homework but didn't do it.
  - C Less than 1 hour
  - D 1 to 2 hours
  - E More than 2 hours

VB331339

7. How often do you talk about things you have studied in school with someone in your family?
- A Never or hardly ever
  - B Once every few weeks
  - C About once a week
  - D Two or three times a week
  - E Every day

VB331447

8. How many days were you absent from school in the last month?
- A None
  - B 1 or 2 days
  - C 3 or 4 days
  - D 5 to 10 days
  - E More than 10 days

9. How far in school did your mother go?
- A She did not finish high school.
  - B She graduated from high school.
  - C She had some education after high school.
  - D She graduated from college.
  - E I don't know.

VB330871

10. How far in school did your father go?
- A He did not finish high school.
  - B He graduated from high school.
  - C He had some education after high school.
  - D He graduated from college.
  - E I don't know.

VB331451

11. How often do people in your home talk to each other in a language other than English?
- A Never
  - B Once in a while
  - C About half of the time
  - D All or most of the time

BO004801

12. What kind of mathematics are you taking this year?
- A I am not taking mathematics this year.
  - B Regular mathematics
  - C Pre-algebra
  - D Algebra
  - E Other

## Appendix K4-5: Summary of Changes Operational Age 17 Mathematics

<b>2019/2020 Operational Age 17 Long-Term Trend Mathematics Student</b>																											
Previous item	2019/2020 LTT item	D/ RV/NC	Rationale																								
<p>3. Are you Hispanic or Latino? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> No, I am not Hispanic or Latino.</li> <li><input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> Yes, I am from some other Hispanic or Latino background.</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #5)</p>	<p style="text-align: right; font-size: small;">VB331330</p> <p>1. Are you Hispanic or Latino? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> No, I am not Hispanic or Latino.</li> <li><input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> Yes, I am from some other Hispanic or Latino background.</li> </ul>	NC	N/A																								
<p>4. Which of the following best describes you? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> White</li> <li><input type="radio"/> Black or African American</li> <li><input type="radio"/> Asian</li> <li><input type="radio"/> American Indian or Alaska Native</li> <li><input type="radio"/> Native Hawaiian or other Pacific Islander</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #6)</p>	<p style="text-align: right; font-size: small;">VB331331</p> <p>2. Which of the following best describes you? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> White</li> <li><input type="radio"/> Black or African American</li> <li><input type="radio"/> Asian</li> <li><input type="radio"/> American Indian or Alaska Native</li> <li><input type="radio"/> Native Hawaiian or other Pacific Islander</li> </ul>	NC	N/A																								
<p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Few (0–10)</li> <li><input type="radio"/> Enough to fill one shelf (11–25)</li> <li><input type="radio"/> Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> Enough to fill several bookcases (more than 100)</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #7)</p>	<p style="text-align: right; font-size: small;">VB331335</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Few (0–10)</li> <li><input type="radio"/> Enough to fill one shelf (11–25)</li> <li><input type="radio"/> Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> Enough to fill several bookcases (more than 100)</li> </ul>	NC	N/A																								
<p>6. Do you have any of the following in your home? Select <b>one</b> answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;">V1271105</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;">V1234702</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;">V1261976</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;">V1271110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;">V1271112</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #8)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1271105	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1234702	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V1261976	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1271110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1271112	<p style="text-align: right; font-size: small;">VB331336</p> <p>6. Is there a computer at home that you use?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Yes</li> <li><input type="radio"/> No</li> </ul>	RV	<p>This item was revised and incorporated into a matrix item (sub-item “c”) for 2019 operational.</p>
	Yes	No																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1271105																								
b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1234702																								
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V1261976																								
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1271110																								
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1271112																								



**2019/2020 Operational Age 17 Long-Term Trend Mathematics Student**

Previous item	2019/2020 LTT item	D/ RV/NC	Rationale
<p align="right"><small>TB001101</small></p> <p>6. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p> <p>(2015 Grade 4, 8, and 12; Appendix F p. 384 # 6)</p>	<p align="right"><small>TB001101</small></p> <p>8. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p>	NC	N/A
<p>Alternate version (for VH811369)</p> <p>About how many hours a day do you spend on your English/language arts homework?</p> <p>A. Less than 30 minutes a day</p> <p>B. 30 minutes; up to 1 hour a day</p> <p>C. 1 up to 2 hours a day</p> <p>D. 2 up to 3 hours a day</p> <p>E. 3 up to 4 hours a day</p> <p>F. More than 4 hours a day</p> <p>(2018 Grade 4, 8, and 12; Appendix F p. 228 alternate version for VH811369)</p>	<p align="right"><small>B001200</small></p> <p>9. How much time did you spend on homework yesterday?</p> <p><input type="radio"/> Ⓐ No homework was assigned.</p> <p><input type="radio"/> Ⓑ I had homework but didn't do it.</p> <p><input type="radio"/> Ⓒ Less than 1 hour</p> <p><input type="radio"/> Ⓓ 1 to 2 hours</p> <p><input type="radio"/> Ⓔ More than 2 hours</p>	RV	An alternate version to this LTT item was tested in cognitive lab in Writing.
<p>9. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p> <p>(2019 Grade 4, 8, and 12; Appendix F p.39 #11)</p>	<p align="right"><small>VB331339</small></p> <p>10. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p>	NC	N/A
<p>8. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p> <p>(2019 Grade 4, 8, and 12; Appendix F p. 38 #10)</p>	<p align="right"><small>VB331447</small></p> <p>11. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p>	NC	N/A
<p>10. How far in school did <b>your mother</b> go?</p> <p><input type="radio"/> Ⓐ She did not finish high school.</p> <p><input type="radio"/> Ⓑ She graduated from high school.</p> <p><input type="radio"/> Ⓒ She had some education after high school.</p> <p><input type="radio"/> Ⓓ She graduated from college.</p> <p><input type="radio"/> Ⓔ I don't know.</p> <p>(2019 Grade 8 and 12; Appendix F p. 39 #12)</p>	<p align="right"><small>VB330870</small></p> <p>13. How far in school did your mother go?</p> <p><input type="radio"/> Ⓐ She did not finish high school.</p> <p><input type="radio"/> Ⓑ She graduated from high school.</p> <p><input type="radio"/> Ⓒ She had some education after high school.</p> <p><input type="radio"/> Ⓓ She graduated from college.</p> <p><input type="radio"/> Ⓔ I don't know.</p>	NC	N/A



## 2019/2020 Operational Age 17 Long-Term Trend Mathematics Student

Previous item	2019/2020 LTT item	D/ RV/NC	Rationale
<p>11. How far in school did your father go?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ He did not finish high school.</li> <li><input type="radio"/> Ⓑ He graduated from high school.</li> <li><input type="radio"/> Ⓒ He had some education after high school.</li> <li><input type="radio"/> Ⓓ He graduated from college.</li> <li><input type="radio"/> Ⓔ I don't know.</li> </ul> <p>(2019 Grade 8 and 12; Appendix F p. 39 #13)</p>	<p style="text-align: right; font-size: small;">VB330871</p> <p>14. How far in school did your father go?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ He did not finish high school.</li> <li><input type="radio"/> Ⓑ He graduated from high school.</li> <li><input type="radio"/> Ⓒ He had some education after high school.</li> <li><input type="radio"/> Ⓓ He graduated from college.</li> <li><input type="radio"/> Ⓔ I don't know.</li> </ul>	NC	N/A
<p style="text-align: right; font-size: small;">VB331451</p> <p>9. How often do people in your home talk to each other in a language other than English?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ Never</li> <li><input type="radio"/> Ⓑ Once in a while</li> <li><input type="radio"/> Ⓒ About half of the time</li> <li><input type="radio"/> Ⓓ All or most of the time</li> </ul> <p>(2015 Grade 4, 8, and 12; Appendix F p. 385 #11)</p>	<p style="text-align: right; font-size: small;">VB331451</p> <p>15. How often do people in your home talk to each other in a language other than English?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ Never</li> <li><input type="radio"/> Ⓑ Once in a while</li> <li><input type="radio"/> Ⓒ About half of the time</li> <li><input type="radio"/> Ⓓ All or most of the time</li> </ul>	NC	N/A
<p>23. Which of the following best describes your high school program?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ General</li> <li><input type="radio"/> Ⓑ Academic or college preparatory</li> <li><input type="radio"/> Ⓒ Vocational or technical</li> </ul> <p>(2019 Grade 12; Appendix F p. 49 #28)</p>	<p style="text-align: right; font-size: small;">HE002549</p> <p>16. Which of the following best describes your high school program?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ General</li> <li><input type="radio"/> Ⓑ Academic or college preparatory</li> <li><input type="radio"/> Ⓒ Vocational or technical</li> </ul>	NC	N/A

## 2019/2020 Operational Age 17 Long-Term Trend Mathematics Student

Previous item	2019/2020 LTT item	D/ RV/NC	Rationale																																																																																																																																
<p>24. Which courses have you taken from eighth grade to the present? If you have taken a course more than once, give the most recent year you took it. INCLUDE courses taken in summer school, but DO NOT INCLUDE topics that were only taught as part of a longer course (such as trigonometry taught in drafting class or computer programming taught in Algebra II). Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>I have never taken this course.</th> <th>I took this course in or before Grade 8.</th> <th>I took this course in Grade 9.</th> <th>I took this course in Grade 10.</th> <th>I took this course in Grade 11.</th> <th>I took this course in Grade 12.</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic or general mathematics course</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4003</td> </tr> <tr> <td>b. Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4004</td> </tr> <tr> <td>c. Introduction to algebra or pre-algebra course</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4002</td> </tr> <tr> <td>d. Algebra I course</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4005</td> </tr> <tr> <td>e. Geometry course</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4006</td> </tr> <tr> <td>f. Algebra II course, with or without trigonometry</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4005</td> </tr> <tr> <td>g. Trigonometry (as a separate course)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4006</td> </tr> <tr> <td>h. Pre-calculus course (also called introductory analysis)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4003</td> </tr> <tr> <td>i. Integrated mathematics 1 (first year of a multi-year course)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4001</td> </tr> <tr> <td>j. Integrated mathematics 2 (second year of a multi-year course)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4002</td> </tr> <tr> <td>k. Integrated mathematics 3 (third year of a multi-year course)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4002</td> </tr> <tr> <td>l. Integrated mathematics 4 (fourth year of a multi-year course)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4001</td> </tr> <tr> <td>m. Probability or statistics course</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4008</td> </tr> <tr> <td>n. Calculus course</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4009</td> </tr> <tr> <td>o. Computer programming course (such as C++, Visual Basic, etc.)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VTD4008</td> </tr> </tbody> </table>		I have never taken this course.	I took this course in or before Grade 8.	I took this course in Grade 9.	I took this course in Grade 10.	I took this course in Grade 11.	I took this course in Grade 12.		a. Basic or general mathematics course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4003	b. Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4004	c. Introduction to algebra or pre-algebra course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4002	d. Algebra I course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4005	e. Geometry course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4006	f. Algebra II course, with or without trigonometry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4005	g. Trigonometry (as a separate course)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4006	h. Pre-calculus course (also called introductory analysis)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4003	i. Integrated mathematics 1 (first year of a multi-year course)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4001	j. Integrated mathematics 2 (second year of a multi-year course)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4002	k. Integrated mathematics 3 (third year of a multi-year course)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4002	l. Integrated mathematics 4 (fourth year of a multi-year course)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4001	m. Probability or statistics course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4008	n. Calculus course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4009	o. Computer programming course (such as C++, Visual Basic, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VTD4008	<p><b>Questions 17–23.</b> Counting what you are taking now, have you ever taken mathematics courses? Fill in only one oval on each line.</p> <p style="text-align: right;"><b>Have taken</b></p> <p>17. General, business, or consumer mathematics <span style="float: right;">Ⓐ</span></p> <p>18. Pre-algebra or introduction to algebra <span style="float: right;">Ⓐ</span></p> <p>19. First-year algebra <span style="float: right;">Ⓐ</span></p> <p>20. Second-year algebra <span style="float: right;">Ⓐ</span></p> <p>21. Geometry <span style="float: right;">Ⓐ</span></p> <p>22. Trigonometry <span style="float: right;">Ⓐ</span></p> <p>23. Pre-calculus or calculus <span style="float: right;">Ⓐ</span></p>	RV	This item was revised for 2019 operational.
	I have never taken this course.	I took this course in or before Grade 8.	I took this course in Grade 9.	I took this course in Grade 10.	I took this course in Grade 11.	I took this course in Grade 12.																																																																																																																													
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(2019 Grade 12; Appendix F p. 118 #1)																																																																																																																																			

NOTE: This column indicates whether the item was dropped (D), added (A), revised version (RV), or there was no change (NC).

## Appendix K4-6: Operational Age 17 Mathematics

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.
- A No, I am not Hispanic or Latino.
  - B Yes, I am Mexican, Mexican American, or Chicano.
  - C Yes, I am Puerto Rican or Puerto Rican American.
  - D Yes, I am Cuban or Cuban American.
  - E Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.
- A White
  - B Black or African American
  - C Asian
  - D American Indian or Alaska Native
  - E Native Hawaiian or other Pacific Islander

VB331335

3. About how many books are there in your home?
- A Few (0–10)
  - B Enough to fill one shelf (11–25)
  - C Enough to fill one bookcase (26–100)
  - D Enough to fill several bookcases (more than 100)

VB331336

4. Is there a computer at home that you use?
- A Yes
  - B No

5. About how many pages a day do you have to read in school and for homework?
- A 5 or fewer
  - B 6–10
  - C 11–15
  - D 16–20
  - E More than 20

BO001200

6. How much time did you spend on homework yesterday?
- A No homework was assigned.
  - B I had homework but didn't do it.
  - C Less than 1 hour
  - D 1 to 2 hours
  - E More than 2 hours

VB331339

7. How often do you talk about things you have studied in school with someone in your family?
- A Never or hardly ever
  - B Once every few weeks
  - C About once a week
  - D Two or three times a week
  - E Every day

VB331447

8. How many days were you absent from school in the last month?
- A None
  - B 1 or 2 days
  - C 3 or 4 days
  - D 5 to 10 days
  - E More than 10 days

9. How far in school did your mother go?
- A She did not finish high school.
  - B She graduated from high school.
  - C She had some education after high school.
  - D She graduated from college.
  - E I don't know.

VB330871

10. How far in school did your father go?
- A He did not finish high school.
  - B He graduated from high school.
  - C He had some education after high school.
  - D He graduated from college.
  - E I don't know.

VB331451

11. How often do people in your home talk to each other in a language other than English?
- A Never
  - B Once in a while
  - C About half of the time
  - D All or most of the time

HE002549

12. Which of the following best describes your high school program?
- A General
  - B Academic or college preparatory
  - C Vocational or technical

13. Counting what you are taking now, have you ever taken any of the following mathematics courses?  
Fill in only one oval on each line.

	Have taken	Have not taken	
a. General, business, or consumer mathematics	A	B	VC373212
b. Pre-algebra or introduction to algebra	A	B	VC373213
c. First-year algebra	A	B	VC373217
d. Second-year algebra	A	B	VC373220
e. Geometry	A	B	VC373221
f. Trigonometry	A	B	VC373222
g. Pre-calculus or calculus	A	B	VC373224

## Appendix K4-7: Summary of Changes Operational Age 9 Reading

<b>2019/2020 Operational Age 9 Long-Term Trend Reading Student</b>																											
Previous item	2019/2020 LTT item	D/ RV/ NC	Rationale																								
<p>3. Are you Hispanic or Latino? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A No, I am not Hispanic or Latino.</li> <li><input type="radio"/> B Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> C Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> D Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> E Yes, I am from some other Hispanic or Latino background.</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 10 #6)</p>	<p style="text-align: right; font-size: small;">VB331330</p> <p>1. Are you Hispanic or Latino? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A No, I am not Hispanic or Latino.</li> <li><input type="radio"/> B Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> C Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> D Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> E Yes, I am from some other Hispanic or Latino background.</li> </ul>	NC	N/A																								
<p>4. Which of the following best describes you? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A White</li> <li><input type="radio"/> B Black or African American</li> <li><input type="radio"/> C Asian</li> <li><input type="radio"/> D American Indian or Alaska Native</li> <li><input type="radio"/> E Native Hawaiian or other Pacific Islander</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p.10 #7)</p>	<p style="text-align: right; font-size: small;">VB331331</p> <p>2. Which of the following best describes you? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> A White</li> <li><input type="radio"/> B Black or African American</li> <li><input type="radio"/> C Asian</li> <li><input type="radio"/> D American Indian or Alaska Native</li> <li><input type="radio"/> E Native Hawaiian or other Pacific Islander</li> </ul>	NC	N/A																								
<p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Few (0–10)</li> <li><input type="radio"/> B Enough to fill one shelf (11–25)</li> <li><input type="radio"/> C Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> D Enough to fill several bookcases (more than 100)</li> </ul> <p>(2019 Grade 4, 8, and 12 Appendix F p.10 #8)</p>	<p style="text-align: right; font-size: small;">VB331335</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Few (0–10)</li> <li><input type="radio"/> B Enough to fill one shelf (11–25)</li> <li><input type="radio"/> C Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> D Enough to fill several bookcases (more than 100)</li> </ul>	NC	N/A																								
<p>6. Do you have any of the following in your home? Select <b>one</b> answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1071108</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1034702</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V10591074</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1071110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1071112</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p.11 #9)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1071108	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1034702	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V10591074	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1071110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1071112	<p style="text-align: right; font-size: small;">VB331336</p> <p>6. Is there a computer at home that you use?</p> <ul style="list-style-type: none"> <li><input type="radio"/> A Yes</li> <li><input type="radio"/> B No</li> </ul>	RV	<p>This item was revised and incorporated into a matrix item (sub-item “c”) for 2019 operational.</p>
	Yes	No																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1071108																								
b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1034702																								
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e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1071112																								

**2019/2020 Operational Age 9 Long-Term Trend Reading Student**

Previous item	2019/2020 LTT item	D/ RV/ NC	Rationale
<p align="right"><small>TR001101</small></p> <p>6. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p> <p>(2015 Grade 4, 8, and 12; Appendix F p. 376 #6)</p>	<p align="right"><small>TR001101</small></p> <p>8. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p>	NC	N/A
<p>Alternate version (for VH811369)</p> <p>About how many hours a day do you spend on your English/language arts homework?</p> <p>A. Less than 30 minutes a day</p> <p>B. 30 minutes up to 1 hour a day</p> <p>C. 1 up to 2 hours a day</p> <p>D. 2 up to 3 hours a day</p> <p>E. 3 up to 4 hours a day</p> <p>F. More than 4 hours a day</p> <p>(2018 Grade 4, 8, and 12; Appendix F p.179 alternate version for VH811369)</p>	<p align="right"><small>B001200</small></p> <p>9. How much time did you spend on homework yesterday?</p> <p><input type="radio"/> Ⓐ No homework was assigned.</p> <p><input type="radio"/> Ⓑ I had homework but didn't do it.</p> <p><input type="radio"/> Ⓒ Less than 1 hour</p> <p><input type="radio"/> Ⓓ 1 to 2 hours</p> <p><input type="radio"/> Ⓔ More than 2 hours</p>	RV	An alternate version to this LTT item was tested in cognitive lab in Writing.
<p>9. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p> <p>(2019 Grade 4, 8, and 12; Appendix F p.12 #12)</p>	<p align="right"><small>VB331339</small></p> <p>10. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p>	NC	N/A
<p>8. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p> <p>(2019 Grade 4, 8, and 12; Appendix F p.24 #11)</p>	<p align="right"><small>VB331447</small></p> <p>11. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p>	NC	N/A
<p align="right"><small>VB331451</small></p> <p>9. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> Ⓐ Never</p> <p><input type="radio"/> Ⓑ Once in a while</p> <p><input type="radio"/> Ⓒ About half of the time</p> <p><input type="radio"/> Ⓓ All or most of the time</p>	<p align="right"><small>VB331451</small></p> <p>13. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> Ⓐ Never</p> <p><input type="radio"/> Ⓑ Once in a while</p> <p><input type="radio"/> Ⓒ About half of the time</p> <p><input type="radio"/> Ⓓ All or most of the time</p>	NC	N/A



## 2019/2020 Operational Age 9 Long-Term Trend Reading Student

Previous item	2019/2020 LTT item	D/ RV/ NC	Rationale																																															
(2015 Grade 4, 8, and 12; Appendix F p. 377 #9)																																																		
<p>26. How much does each of the following statements describe you? Select one answer choice on each row. <span style="float: right; font-size: small;">Y1844168</span></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Not at all like me</th> <th style="width: 10%;">A little bit like me</th> <th style="width: 10%;">Somewhat like me</th> <th style="width: 10%;">Quite a bit like me</th> <th style="width: 10%;">Exactly like me</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>a. Reading is one of my favorite activities.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td style="font-size: x-small;">Y1844169</td> </tr> <tr> <td>b. I like talking about books with other people.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td style="font-size: x-small;">Y1844170</td> </tr> <tr> <td>c. I think reading is important.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td style="font-size: x-small;">Y1844172</td> </tr> <tr> <td>d. I enjoy going to a bookstore or a library.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td style="font-size: x-small;">Y1844171</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p.59 #10)</p>		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me		a. Reading is one of my favorite activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Y1844169	b. I like talking about books with other people.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Y1844170	c. I think reading is important.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Y1844172	d. I enjoy going to a bookstore or a library.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Y1844171	<p>14. How often do you do each of the following things?</p> <table style="width: 100%; margin-left: 20px;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;">Almost every day</th> <th style="width: 10%; text-align: center;">Once or twice a week</th> <th style="width: 10%; text-align: center;">Once or twice a month</th> </tr> </thead> <tbody> <tr> <td>a. Read for fun on your own time.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> </tr> <tr> <td>b. Tell a friend about a good book.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> </tr> </tbody> </table>		Almost every day	Once or twice a week	Once or twice a month	a. Read for fun on your own time.	Ⓐ	Ⓑ	Ⓒ	b. Tell a friend about a good book.	Ⓐ	Ⓑ	Ⓒ	RV	<p>The 2019 operational version of this LTT item has revised response options and sub-item wording.</p>
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NOTE: This column indicates whether the item was dropped (D), added (A), revised version (RV), or there was no change (NC).

## Appendix K4-8: Operational Age 9 Reading

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.
- A No, I am not Hispanic or Latino.
  - B Yes, I am Mexican, Mexican American, or Chicano.
  - C Yes, I am Puerto Rican or Puerto Rican American.
  - D Yes, I am Cuban or Cuban American.
  - E Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.
- A White
  - B Black or African American
  - C Asian
  - D American Indian or Alaska Native
  - E Native Hawaiian or other Pacific Islander

VB331335

3. About how many books are there in your home?
- A Few (0–10)
  - B Enough to fill one shelf (11–25)
  - C Enough to fill one bookcase (26–100)
  - D Enough to fill several bookcases (more than 100)

VB331336

4. Is there a computer at home that you use?
- A Yes
  - B No

5. About how many pages a day do you have to read in school and for homework?
- A 5 or fewer
  - B 6–10
  - C 11–15
  - D 16–20
  - E More than 20

BO001200

6. How much time did you spend on homework yesterday?
- A No homework was assigned.
  - B I had homework but didn't do it.
  - C Less than 1 hour
  - D 1 to 2 hours
  - E More than 2 hours

VB331339

7. How often do you talk about things you have studied in school with someone in your family?
- A Never or hardly ever
  - B Once every few weeks
  - C About once a week
  - D Two or three times a week
  - E Every day

VB331447

8. How many days were you absent from school in the last month?
- A None
  - B 1 or 2 days
  - C 3 or 4 days
  - D 5 to 10 days
  - E More than 10 days

9. How often do people in your home talk to each other in a language other than English?
- A Never
  - B Once in a while
  - C About half of the time
  - D All or most of the time

SO003500

10. How often do you do each of the following things?

	<b>Almost every day</b>	<b>Once or twice a week</b>	<b>Once or twice a month</b>	<b>A few times a year</b>	<b>Never or hardly ever</b>	
a. Read for fun on your own time.	A	B	C	D	E	VC375071
b. Tell a friend about a good book.	A	B	C	D	E	VC375073

## Appendix K4-9: Summary of Changes Operational Age 13 Reading

<b>2019/2020 Operational Age 13 Long-Term Trend Reading Student</b>																											
Previous item	2019/2020 LTT item	D/ RV/NC	Rationale																								
<p>3. Are you Hispanic or Latino? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> No, I am not Hispanic or Latino.</li> <li><input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> Yes, I am from some other Hispanic or Latino background.</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p.23 #6)</p>	<p style="text-align: right; font-size: small;">VB331330</p> <p>1. Are you Hispanic or Latino? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> No, I am not Hispanic or Latino.</li> <li><input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> Yes, I am from some other Hispanic or Latino background.</li> </ul>	NC	N/A																								
<p>4. Which of the following best describes you? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> White</li> <li><input type="radio"/> Black or African American</li> <li><input type="radio"/> Asian</li> <li><input type="radio"/> American Indian or Alaska Native</li> <li><input type="radio"/> Native Hawaiian or other Pacific Islander</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 23 #7)</p>	<p style="text-align: right; font-size: small;">VB331331</p> <p>2. Which of the following best describes you? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> White</li> <li><input type="radio"/> Black or African American</li> <li><input type="radio"/> Asian</li> <li><input type="radio"/> American Indian or Alaska Native</li> <li><input type="radio"/> Native Hawaiian or other Pacific Islander</li> </ul>	NC	N/A																								
<p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Few (0–10)</li> <li><input type="radio"/> Enough to fill one shelf (11–25)</li> <li><input type="radio"/> Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> Enough to fill several bookcases (more than 100)</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 23 #8)</p>	<p style="text-align: right; font-size: small;">VB331335</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Few (0–10)</li> <li><input type="radio"/> Enough to fill one shelf (11–25)</li> <li><input type="radio"/> Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> Enough to fill several bookcases (more than 100)</li> </ul>	NC	N/A																								
<p>6. Do you have any of the following in your home? Select <b>one</b> answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1027108</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1030702</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V10891076</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1027110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1027112</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p. 24 #9)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1027108	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1030702	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V10891076	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1027110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1027112	<p style="text-align: right; font-size: small;">VB331336</p> <p>6. Is there a computer at home that you use?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Yes</li> <li><input type="radio"/> No</li> </ul>	RV	<p>This item was revised and incorporated into a matrix item (sub-item “c”) for 2019 operational.</p>
	Yes	No																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1027108																								
b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V1030702																								
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V10891076																								
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## 2019/2020 Operational Age 13 Long-Term Trend Reading Student

Previous item	2019/2020 LTT item	D/ RV/NC	Rationale
<p style="text-align: right; font-size: small;">TB001101</p> <p>6. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p> <p>(2015 Grade 4, 8, and 12; Appendix F p. 380 #6)</p>	<p style="text-align: right; font-size: small;">TB001101</p> <p>8. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p>	NC	N/A
<p>Alternate version (for VH811369)</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>About how many hours a day do you spend on your English/language arts homework?</p> <p>A. Less than 30 minutes a day</p> <p>B. 30 minutes; up to 1 hour a day</p> <p>C. 1 up to 2 hours a day</p> <p>D. 2 up to 3 hours a day</p> <p>E. 3 up to 4 hours a day</p> <p>F. More than 4 hours a day</p> </div> <p>(2018 Grade 4, 8, and 12; Appendix F p. 193 alternate version for VH811369)</p>	<p style="text-align: right; font-size: small;">B001200</p> <p>9. How much time did you spend on homework yesterday?</p> <p><input type="radio"/> Ⓐ No homework was assigned.</p> <p><input type="radio"/> Ⓑ I had homework but didn't do it.</p> <p><input type="radio"/> Ⓒ Less than 1 hour</p> <p><input type="radio"/> Ⓓ 1 to 2 hours</p> <p><input type="radio"/> Ⓔ More than 2 hours</p>	RV	An alternate version to this LTT item was tested in cognitive lab in Writing.
<p>9. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p> <p>(2019 Grade 4, 8, and 12; Appendix F p. 25 #12)</p>	<p style="text-align: right; font-size: small;">VB331339</p> <p>10. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p>	NC	N/A
<p>8. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p> <p>(2019 Grade 4, 8, and 12; Appendix F p. 24 #11)</p>	<p style="text-align: right; font-size: small;">VB331447</p> <p>11. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p>	NC	N/A
<p>10. How far in school did your mother go?</p> <p><input type="radio"/> Ⓐ She did not finish high school.</p> <p><input type="radio"/> Ⓑ She graduated from high school.</p> <p><input type="radio"/> Ⓒ She had some education after high school.</p> <p><input type="radio"/> Ⓓ She graduated from college.</p> <p><input type="radio"/> Ⓔ I don't know.</p> <p>(2018 Grade 8 and 12; Appendix F p. 25 #13)</p>	<p style="text-align: right; font-size: small;">VB330870</p> <p>13. How far in school did your mother go?</p> <p><input type="radio"/> Ⓐ She did not finish high school.</p> <p><input type="radio"/> Ⓑ She graduated from high school.</p> <p><input type="radio"/> Ⓒ She had some education after high school.</p> <p><input type="radio"/> Ⓓ She graduated from college.</p> <p><input type="radio"/> Ⓔ I don't know.</p>	NC	N/A

## 2019/2020 Operational Age 13 Long-Term Trend Reading Student

Previous item	2019/2020 LTT item	D/ RV/NC	Rationale																																															
<p>11. How far in school did your father go?</p> <p><input type="radio"/> He did not finish high school.</p> <p><input type="radio"/> He graduated from high school.</p> <p><input type="radio"/> He had some education after high school.</p> <p><input type="radio"/> He graduated from college.</p> <p><input type="radio"/> I don't know.</p> <p>(2019 Grade 8 and 12; Appendix F p. 25 #14)</p>	<p style="text-align: right; font-size: small;">VB330871</p> <p>14. How far in school did your father go?</p> <p><input type="radio"/> He did not finish high school.</p> <p><input type="radio"/> He graduated from high school.</p> <p><input type="radio"/> He had some education after high school.</p> <p><input type="radio"/> He graduated from college.</p> <p><input type="radio"/> I don't know.</p>	NC	N/A																																															
<p style="text-align: right; font-size: small;">VB331451</p> <p>9. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> About half of the time</p> <p><input type="radio"/> All or most of the time</p> <p>(2015 Grade 4, 8, and 12; Appendix F p. 381 #11)</p>	<p style="text-align: right; font-size: small;">VB331451</p> <p>15. How often do people in your home talk to each other in a language other than English?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> About half of the time</p> <p><input type="radio"/> All or most of the time</p>	NC	N/A																																															
<p>26. How much does each of the following statements describe you? Select one answer choice on each row. <span style="float: right; font-size: small;">VB8418</span></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Reading is one of my favorite activities.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VB8419</td> </tr> <tr> <td>b. I like talking about books with other people.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VB8419</td> </tr> <tr> <td>c. I think reading is important.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VB8417</td> </tr> <tr> <td>d. I enjoy going to a bookstore or a library.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VB8417</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p. 72 #10)</p>		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me		a. Reading is one of my favorite activities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VB8419	b. I like talking about books with other people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VB8419	c. I think reading is important.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VB8417	d. I enjoy going to a bookstore or a library.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VB8417	<p>16. How often do you do each of the following things?</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center; font-size: small;">Almost every day</th> <th style="text-align: center; font-size: small;">Once or twice a week</th> <th style="text-align: center; font-size: small;">Once or twice a month</th> </tr> </thead> <tbody> <tr> <td>a. Read for fun on your own time.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>b. Tell a friend about a good book.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>		Almost every day	Once or twice a week	Once or twice a month	a. Read for fun on your own time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	b. Tell a friend about a good book.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	RV	<p>The 2019 operational version of this LTT item has revised response options and sub-item wording.</p>
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NOTE: This column indicates whether the item was dropped (D), added (A), revised version (RV), or there was no change (NC).

## Appendix K4-10: Operational Age 13 Reading

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.
- A No, I am not Hispanic or Latino.
  - B Yes, I am Mexican, Mexican American, or Chicano.
  - C Yes, I am Puerto Rican or Puerto Rican American.
  - D Yes, I am Cuban or Cuban American.
  - E Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.
- A White
  - B Black or African American
  - C Asian
  - D American Indian or Alaska Native
  - E Native Hawaiian or other Pacific Islander

VB331335

3. About how many books are there in your home?
- A Few (0–10)
  - B Enough to fill one shelf (11–25)
  - C Enough to fill one bookcase (26–100)
  - D Enough to fill several bookcases (more than 100)

VB331336

4. Is there a computer at home that you use?
- A Yes
  - B No



5. About how many pages a day do you have to read in school and for homework?
- A 5 or fewer
  - B 6–10
  - C 11–15
  - D 16–20
  - E More than 20

BO001200

6. How much time did you spend on homework yesterday?
- A No homework was assigned.
  - B I had homework but didn't do it.
  - C Less than 1 hour
  - D 1 to 2 hours
  - E More than 2 hours

VB331339

7. How often do you talk about things you have studied in school with someone in your family?
- A Never or hardly ever
  - B Once every few weeks
  - C About once a week
  - D Two or three times a week
  - E Every day

VB331447

8. How many days were you absent from school in the last month?
- A None
  - B 1 or 2 days
  - C 3 or 4 days
  - D 5 to 10 days
  - E More than 10 days

9. How far in school did your mother go?
- A She did not finish high school.
  - B She graduated from high school.
  - C She had some education after high school.
  - D She graduated from college.
  - E I don't know.

10. How far in school did your father go?
- A He did not finish high school.
  - B He graduated from high school.
  - C He had some education after high school.
  - D He graduated from college.
  - E I don't know.

11. How often do people in your home talk to each other in a language other than English?
- A Never
  - B Once in a while
  - C About half of the time
  - D All or most of the time

12. How often do you do each of the following things?

	<b>Almost every day</b>	<b>Once or twice a week</b>	<b>Once or twice a month</b>	<b>A few times a year</b>	<b>Never or hardly ever</b>	
a. Read for fun on your own time.	A	B	C	D	E	VC375071
b. Tell a friend about a good book.	A	B	C	D	E	VC375073

## Appendix K4-11: Summary of Changes Operational Age 17 Reading

<b>2019/2020 Operational Age 17 Long-Term Trend Reading Student</b>																											
Previous item	2019/2020 LTT item	D/RV/ NC	Rationale																								
<p>3. Are you Hispanic or Latino? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> No, I am not Hispanic or Latino.</li> <li><input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> Yes, I am from some other Hispanic or Latino background.</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #5)</p>	<p style="text-align: right; font-size: small;">VB331330</p> <p>1. Are you Hispanic or Latino? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> No, I am not Hispanic or Latino.</li> <li><input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano.</li> <li><input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American.</li> <li><input type="radio"/> Yes, I am Cuban or Cuban American.</li> <li><input type="radio"/> Yes, I am from some other Hispanic or Latino background.</li> </ul>	NC	N/A																								
<p style="text-align: right; font-size: small;">V104388</p> <p>4. Which of the following best describes you? Select <b>one or more</b> answer choices.</p> <ul style="list-style-type: none"> <li><input type="radio"/> White</li> <li><input type="radio"/> Black or African American</li> <li><input type="radio"/> Asian</li> <li><input type="radio"/> American Indian or Alaska Native</li> <li><input type="radio"/> Native Hawaiian or other Pacific Islander</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #6)</p>	<p style="text-align: right; font-size: small;">VB331331</p> <p>2. Which of the following best describes you? Fill in <b>one or more ovals</b>.</p> <ul style="list-style-type: none"> <li><input type="radio"/> White</li> <li><input type="radio"/> Black or African American</li> <li><input type="radio"/> Asian</li> <li><input type="radio"/> American Indian or Alaska Native</li> <li><input type="radio"/> Native Hawaiian or other Pacific Islander</li> </ul>	NC	N/A																								
<p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Few (0–10)</li> <li><input type="radio"/> Enough to fill one shelf (11–25)</li> <li><input type="radio"/> Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> Enough to fill several bookcases (more than 100)</li> </ul> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #7)</p>	<p style="text-align: right; font-size: small;">VB331335</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Few (0–10)</li> <li><input type="radio"/> Enough to fill one shelf (11–25)</li> <li><input type="radio"/> Enough to fill one bookcase (26–100)</li> <li><input type="radio"/> Enough to fill several bookcases (more than 100)</li> </ul>	NC	N/A																								
<p>6. Do you have any of the following in your home? Select <b>one</b> answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1027108</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V10336762</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V10691076</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1027110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">V1027112</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p. 37 #8)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1027108	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V10336762	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V10691076	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1027110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1027112	<p style="text-align: right; font-size: small;">VB331336</p> <p>6. Is there a computer at home that you use?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Yes</li> <li><input type="radio"/> No</li> </ul>	RV	<p>This item was revised and incorporated into a matrix item (sub-item “c”) for 2019 operational.</p>
	Yes	No																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	V1027108																								
b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	V10336762																								
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	V10691076																								
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	V1027110																								
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	V1027112																								

## 2019/2020 Operational Age 17 Long-Term Trend Reading Student

Previous item	2019/2020 LTT item	D/RV/ NC	Rationale
<p style="text-align: right; font-size: small;">TB001101</p> <p>6. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p> <p>(2015 Grade 4, 8, and 12; Appendix F p. 384 #6)</p>	<p style="text-align: right; font-size: small;">TB001101</p> <p>8. About how many pages a day do you have to read in school and for homework?</p> <p><input type="radio"/> Ⓐ 5 or fewer</p> <p><input type="radio"/> Ⓑ 6–10</p> <p><input type="radio"/> Ⓒ 11–15</p> <p><input type="radio"/> Ⓓ 16–20</p> <p><input type="radio"/> Ⓔ More than 20</p>	NC	N/A
<p>Alternate version (for VH811369)</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>About how many hours a day do you spend on your English/language arts homework?</p> <p>A. Less than 30 minutes a day</p> <p>B. 30 minutes up to 1 hour a day</p> <p>C. 1 up to 2 hours a day</p> <p>D. 2 up to 3 hours a day</p> <p>E. 3 up to 4 hours a day</p> <p>F. More than 4 hours a day</p> </div> <p>(2018 Grade 4, 8, and 12; Appendix F p. 228 alternate version for VH811369)</p>	<p style="text-align: right; font-size: small;">B001200</p> <p>9. How much time did you spend on homework yesterday?</p> <p><input type="radio"/> Ⓐ No homework was assigned.</p> <p><input type="radio"/> Ⓑ I had homework but didn't do it.</p> <p><input type="radio"/> Ⓒ Less than 1 hour</p> <p><input type="radio"/> Ⓓ 1 to 2 hours</p> <p><input type="radio"/> Ⓔ More than 2 hours</p>	RV	An alternate version to this LTT item was tested in cognitive lab in Writing.
<p style="text-align: right; font-size: small;">V10809</p> <p>9. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p> <p>(2019 Grade 4, 8, and 12; Appendix F p.39 #11)</p>	<p style="text-align: right; font-size: small;">VB331339</p> <p>10. How often do you talk about things you have studied in school with someone in your family?</p> <p><input type="radio"/> Ⓐ Never or hardly ever</p> <p><input type="radio"/> Ⓑ Once every few weeks</p> <p><input type="radio"/> Ⓒ About once a week</p> <p><input type="radio"/> Ⓓ Two or three times a week</p> <p><input type="radio"/> Ⓔ Every day</p>	NC	N/A
<p>8. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p> <p>(2019 Grade 4, 8, and 12; Appendix F p. 38 #10)</p>	<p style="text-align: right; font-size: small;">VB331447</p> <p>11. How many days were you absent from school in the last month?</p> <p><input type="radio"/> Ⓐ None</p> <p><input type="radio"/> Ⓑ 1 or 2 days</p> <p><input type="radio"/> Ⓒ 3 or 4 days</p> <p><input type="radio"/> Ⓓ 5 to 10 days</p> <p><input type="radio"/> Ⓔ More than 10 days</p>	NC	N/A
<p>10. How far in school did <b>your mother</b> go?</p> <p><input type="radio"/> Ⓐ She did not finish high school.</p> <p><input type="radio"/> Ⓑ She graduated from high school.</p> <p><input type="radio"/> Ⓒ She had some education after high school.</p> <p><input type="radio"/> Ⓓ She graduated from college.</p> <p><input type="radio"/> Ⓔ I don't know.</p> <p>(2018 Grade 8 and 12; Appendix F p. 39 #12)</p>	<p style="text-align: right; font-size: small;">VB330870</p> <p>13. How far in school did your mother go?</p> <p><input type="radio"/> Ⓐ She did not finish high school.</p> <p><input type="radio"/> Ⓑ She graduated from high school.</p> <p><input type="radio"/> Ⓒ She had some education after high school.</p> <p><input type="radio"/> Ⓓ She graduated from college.</p> <p><input type="radio"/> Ⓔ I don't know.</p>	NC	N/A

## 2019/2020 Operational Age 17 Long-Term Trend Reading Student

Previous item	2019/2020 LTT item	D/RV/NC	Rationale																																																		
<p>11. How far in school did your father go?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ He did not finish high school.</li> <li><input type="radio"/> Ⓑ He graduated from high school.</li> <li><input type="radio"/> Ⓒ He had some education after high school.</li> <li><input type="radio"/> Ⓓ He graduated from college.</li> <li><input type="radio"/> Ⓔ I don't know.</li> </ul> <p>(2019 Grade 8 and 12; Appendix F p. 39 #13)</p>	<p style="text-align: right; font-size: small;">VB330871</p> <p>14. How far in school did your father go?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ He did not finish high school.</li> <li><input type="radio"/> Ⓑ He graduated from high school.</li> <li><input type="radio"/> Ⓒ He had some education after high school.</li> <li><input type="radio"/> Ⓓ He graduated from college.</li> <li><input type="radio"/> Ⓔ I don't know.</li> </ul>	NC	N/A																																																		
<p style="text-align: right; font-size: small;">VB331451</p> <p>9. How often do people in your home talk to each other in a language other than English?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ Never</li> <li><input type="radio"/> Ⓑ Once in a while</li> <li><input type="radio"/> Ⓒ About half of the time</li> <li><input type="radio"/> Ⓓ All or most of the time</li> </ul> <p>(2015 Grade 4, 8, and 12; Appendix F p. 385 #11)</p>	<p style="text-align: right; font-size: small;">VB331451</p> <p>15. How often do people in your home talk to each other in a language other than English?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ Never</li> <li><input type="radio"/> Ⓑ Once in a while</li> <li><input type="radio"/> Ⓒ About half of the time</li> <li><input type="radio"/> Ⓓ All or most of the time</li> </ul>	NC	N/A																																																		
<p>23. Which of the following best describes your high school program?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ General</li> <li><input type="radio"/> Ⓑ Academic or college preparatory</li> <li><input type="radio"/> Ⓒ Vocational or technical</li> </ul> <p>(2019 Grade 12; Appendix F p. 49 #28)</p>	<p style="text-align: right; font-size: small;">HE002549</p> <p>16. Which of the following best describes your high school program?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Ⓐ General</li> <li><input type="radio"/> Ⓑ Academic or college preparatory</li> <li><input type="radio"/> Ⓒ Vocational or technical</li> </ul>	NC	N/A																																																		
<p>26. How much does each of the following statements describe you? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Reading is one of my favorite activities.</td> <td style="text-align: center;"><input type="radio"/> Ⓐ</td> <td style="text-align: center;"><input type="radio"/> Ⓑ</td> <td style="text-align: center;"><input type="radio"/> Ⓒ</td> <td style="text-align: center;"><input type="radio"/> Ⓓ</td> <td style="text-align: center;"><input type="radio"/> Ⓔ</td> <td style="font-size: x-small;">VB04169</td> </tr> <tr> <td>b. I like talking about books with other people.</td> <td style="text-align: center;"><input type="radio"/> Ⓐ</td> <td style="text-align: center;"><input type="radio"/> Ⓑ</td> <td style="text-align: center;"><input type="radio"/> Ⓒ</td> <td style="text-align: center;"><input type="radio"/> Ⓓ</td> <td style="text-align: center;"><input type="radio"/> Ⓔ</td> <td style="font-size: x-small;">VB04170</td> </tr> <tr> <td>c. I think reading is important.</td> <td style="text-align: center;"><input type="radio"/> Ⓐ</td> <td style="text-align: center;"><input type="radio"/> Ⓑ</td> <td style="text-align: center;"><input type="radio"/> Ⓒ</td> <td style="text-align: center;"><input type="radio"/> Ⓓ</td> <td style="text-align: center;"><input type="radio"/> Ⓔ</td> <td style="font-size: x-small;">VB04172</td> </tr> <tr> <td>d. I enjoy going to a bookstore or a library.</td> <td style="text-align: center;"><input type="radio"/> Ⓐ</td> <td style="text-align: center;"><input type="radio"/> Ⓑ</td> <td style="text-align: center;"><input type="radio"/> Ⓒ</td> <td style="text-align: center;"><input type="radio"/> Ⓓ</td> <td style="text-align: center;"><input type="radio"/> Ⓔ</td> <td style="font-size: x-small;">VB04171</td> </tr> </tbody> </table> <p>(2019 Grade 4, 8, and 12; Appendix F p. 86 #9)</p>		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me		a. Reading is one of my favorite activities.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VB04169	b. I like talking about books with other people.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VB04170	c. I think reading is important.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VB04172	d. I enjoy going to a bookstore or a library.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VB04171	<p>17. How often do you do each of the following things?</p> <table style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th style="text-align: center;">Almost every day</th> <th style="text-align: center;">Once or twice a week</th> <th style="text-align: center;">Once or twice a month</th> <th style="text-align: center;">A few times a year</th> </tr> </thead> <tbody> <tr> <td>a. Read for fun on your own time.</td> <td style="text-align: center;"><input type="radio"/> Ⓐ</td> <td style="text-align: center;"><input type="radio"/> Ⓑ</td> <td style="text-align: center;"><input type="radio"/> Ⓒ</td> <td style="text-align: center;"><input type="radio"/> Ⓓ</td> </tr> <tr> <td>b. Tell a friend about a good book.</td> <td style="text-align: center;"><input type="radio"/> Ⓐ</td> <td style="text-align: center;"><input type="radio"/> Ⓑ</td> <td style="text-align: center;"><input type="radio"/> Ⓒ</td> <td style="text-align: center;"><input type="radio"/> Ⓓ</td> </tr> </tbody> </table>		Almost every day	Once or twice a week	Once or twice a month	A few times a year	a. Read for fun on your own time.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	b. Tell a friend about a good book.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	RV	<p>The 2019 operational version of this LTT item has revised response options and sub-item wording.</p>
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me																																																
a. Reading is one of my favorite activities.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VB04169																																															
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b. Tell a friend about a good book.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ																																																	

NOTE: This column indicates whether the item was dropped (D), added (A), revised version (RV), or there was no change (NC).

## Appendix K4-12: Operational Age 17 Reading

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.
- A No, I am not Hispanic or Latino.
  - B Yes, I am Mexican, Mexican American, or Chicano.
  - C Yes, I am Puerto Rican or Puerto Rican American.
  - D Yes, I am Cuban or Cuban American.
  - E Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.
- A White
  - B Black or African American
  - C Asian
  - D American Indian or Alaska Native
  - E Native Hawaiian or other Pacific Islander

VB331335

3. About how many books are there in your home?
- A Few (0–10)
  - B Enough to fill one shelf (11–25)
  - C Enough to fill one bookcase (26–100)
  - D Enough to fill several bookcases (more than 100)

VB331336

4. Is there a computer at home that you use?
- A Yes
  - B No

5. About how many pages a day do you have to read in school and for homework?
- A 5 or fewer
  - B 6–10
  - C 11–15
  - D 16–20
  - E More than 20

BO001200

6. How much time did you spend on homework yesterday?
- A No homework was assigned.
  - B I had homework but didn't do it.
  - C Less than 1 hour
  - D 1 to 2 hours
  - E More than 2 hours

VB331339

7. How often do you talk about things you have studied in school with someone in your family?
- A Never or hardly ever
  - B Once every few weeks
  - C About once a week
  - D Two or three times a week
  - E Every day

VB331447

8. How many days were you absent from school in the last month?
- A None
  - B 1 or 2 days
  - C 3 or 4 days
  - D 5 to 10 days
  - E More than 10 days

9. How far in school did your mother go?
- A She did not finish high school.
  - B She graduated from high school.
  - C She had some education after high school.
  - D She graduated from college.
  - E I don't know.

VB330871

10. How far in school did your father go?
- A He did not finish high school.
  - B He graduated from high school.
  - C He had some education after high school.
  - D He graduated from college.
  - E I don't know.

VB331451

11. How often do people in your home talk to each other in a language other than English?
- A Never
  - B Once in a while
  - C About half of the time
  - D All or most of the time

HE002549

12. Which of the following best describes your high school program?
- A General
  - B Academic or college preparatory
  - C Vocational or technical



13. How often do you do each of the following things?

	<b>Almost every day</b>	<b>Once or twice a week</b>	<b>Once or twice a month</b>	<b>A few times a year</b>	<b>Never or hardly ever</b>	
a. Read for fun on your own time.	A	B	C	D	E	VC375071
b. Tell a friend about a good book.	A	B	C	D	E	VC375073