

Special Instructions for the
Braille Edition of the
Grade 8
Mathematics
Practice Test Booklet

General Comments

1. Braille pages are numbered sequentially in the lower right-hand corner. The corresponding print page numbers are in the upper right-hand corner.
2. A Special Symbols page is included to provide the student with information about the dot formation of special braille characters. A Transcriber's Note page is included within the test to explain special format and layout of information.
3. Mathematical content is transcribed according to *The Nemeth Braille Code for Mathematics and Science Notation*, 1972 Revision, 2007-2016 Updates including the *Guidance for Transcription Using the Nemeth Code within UEB Contexts*.
4. The footers "Go on" are deleted in braille.
5. All references to the answer sheet are omitted in braille. The Answer Sheet is not reproduced in braille.
6. The calculator icons are not included in braille.
7. There are no tactile graphics in this test. Visual information is replaced with descriptions included as a transcriber's note or within the question.

Specific Comments:

Page 2

Directions revised to read as follows:

Directions:

Today, you will take Unit 1 of the Grade 8 Mathematics Practice Test. You will not be able to use a calculator.

Read each question. Then, follow the directions to answer each question. Write your answer. If you need to change an answer, erase it, cross it out or start a new line. If a question asks you to show or explain your work, you must do so to receive full credit. Work done on scratch paper will not be scored.

If you do not know the answer to a question, you may go on to the next question. If you finish early, you may review your answers and any questions you did not answer in this section ONLY. Do not go past the word STOP.

Page 3

Directions revised to read as follows:

Answer Grid Items

Several items in this test require you to enter your answer on a special grid. The sample pictures of the answer grids are omitted in braille. The answer grid has seven answer boxes to write a numeral or decimal point. The first answer box is only used to indicate the negative symbol.

Directions for Completing the Answer Grids

1. Work the problem and find an answer.
2. Give your answer by using a braille writing device (e.g., braillewriter, braille note-taker, slate and stylus) or other method so that when transcribed, it will fit into the answer grid.
3. Answers may take up to seven spaces to fit in the grid. Answers may include a numeral or decimal point, but do not count braille numeric indicators when determining use of the six spaces in the grid. Do not leave a blank space in the middle of an answer.
4. Fractions cannot be entered into an answer grid and will not be scored. Insert fractions as decimals.

Page 4, #2

Last sentence reworded, "Write your answer."

Page 5, #3

A picture description is inserted as a Transcriber's Note– Coordinate grid: Both the x- and y-axis values are labeled from -7 to 7 in increments of 1. Seven points, connected by a solid line, are plotted on the grid as follows:

(-7, -5); line curves to the right and up; (-3, -3)
 (-3, -3); line moves straight up and to the right; (-1, 4)
 (-1, 4); line moves straight down and to the right; (1, 2)
 (1, 2); line curves to the right and up; (3, 5)
 (3, 5); line curves down and to the right; (5, 1)
 (5, 1); line moves straight to the right to (7, 1)

Page 6, #6

Last sentence reworded, "Write your answer."

Page 9, #10

A picture description is inserted as a Transcriber's Note– Coordinate grid: Both the x- and y-axis values are labeled from -9 to 9 in increments of 1. Seven line segments are shown with a plotted point on each end. Identification of each line segment contains the following information: Quadrant Number enclosed in square brackets, line orientation, and coordinates.

[I] Horizontal Line AB: (1, 2) (5, 2)
 [II] Vertical Line CD: (-4, 6) (-4, 2)

[III] Horizontal Line EF: $(-5, -2)$ $(-3, -2)$
 [III] Vertical Line GH: $(-4, -8)$ $(-4, -4)$
 [I] Vertical Line JK: $(3, 5)$ $(3, 8)$
 [IV] Horizontal Line LM: $(9, -6)$ $(1, -6)$
 [IV] Horizontal Line NP: $(9, -2)$ $(5, -2)$

Page 10, #11 A picture description is inserted as a Transcriber's Note— Coordinate grid: Both the x- and y-axis values are labeled from -9 to 9 in increments of 1. Three trapezoids are identified by their Quadrant Number (enclosed in square brackets), figure number and coordinates of each vertex.

[II] Figure 1: $(-5, 8)$, $(-5, 3)$, $(-8, 3)$, $(-8, 6)$
 [III] Figure 2: $(-2, -8)$, $(-2, -3)$, $(-5, -3)$, $(-5, -6)$
 [IV] Figure 3: $(8, -5)$, $(3, -5)$, $(3, -8)$, $(6, -8)$

Page 12, #12 A picture description is inserted as a Transcriber's Note— Coordinate grid: Both the x- and y-axis values are labeled from -4 to 4 in increments of 1. Six points are plotted on the grid as follow: $(0, 2)$; $(-2, 3)$; $(-4, 4)$; $(-1, -2)$; $(2, 1)$; $(3, 0)$

Page 14, #14 Transcriber's Note— Each answer choice contains a Cartesian grid: Both the x- and y-axis values are labeled from -8 to 8 in increments of 1. In each grid, lines s and t intersect and Point P is plotted on either line or at the intersection of the two lines.

A picture description is inserted as a Transcriber's Note for each answer choice:

- A. Line s passes through $(-6, -5)$; $(0, -3)$; $(6, -1)$. Line t passes through $(-2, 7)$; $(0, 5)$; and $(2, 3)$. Point P is plotted at $(5, 0)$ on line t.
- B. Line s passes through $(-1, -6)$; $(1, 0)$; $(3, 6)$. Line t passes through $(-2, 7)$; $(0, 5)$; and $(2, 3)$. Point P is plotted at $(1, 0)$ on line s.
- C. Line s passes through $(-6, -5)$; $(0, -3)$; $(6, -1)$. Line t passes through $(-2, 7)$; $(0, 5)$; and $(2, 3)$. Point P is plotted at $(6, -1)$ at the intersection of lines s and t.
- D. Line s passes through $(-1, -6)$; $(1, 0)$; $(3, 6)$. Line t passes through $(-2, 7)$; $(0, 5)$; and $(2, 3)$. Point P is plotted at $(2, 3)$ at the intersection of lines s and t.

Page 16, #15 A picture description is inserted as a Transcriber's Note— Quadrant I of a Cartesian grid shows the horizontal and vertical axis values ranging from 0 to 10 in increments of 1. Starting at 0, every line is labeled in increments of 1. Sixteen data points are shown at the following locations:

$(1, 3)$
 $(2, 3.5)$
 $(3, 3.5)$

(3, 4)
 (4, 4.5)
 (4.5, 5)
 (5, 4)
 (5, 5.5)
 (5.5, 5)
 (6, 5.5)
 (7, 6)
 (7.5, 6)
 (8, 5.5)
 (8.5, 6.5)
 (9, 7.5)
 (10, 7)

- Page 17, #15 Transcriber’s Note– Each answer choice contains a scatter plot with the same parameters and data points. A line of best fit is added to each answer choice. A picture description is inserted as a Transcriber’s Note for each answer choice:
- The line of best fit touches nine plotted points as it moves up and to the right passing through (1, 3) and (3, 4). Three other plotted points are above the line and four are below.
 - The line of best fit touches two plotted points as it moves up and to the right passing through (5, 4) and (7.5, 6). Eleven other plotted points are above the line and three are below.
 - The line of best fit touches four plotted points as it moves up and to the right passing through (4, 5) and (6, 5.5). Four other plotted points are above the line and eight are below.
 - The line of best fit touches seven plotted points as it moves up and to the right passing through (1, 3) and (4.5, 5). Nine other plotted points are below the line.
- Page 17, #16 Last sentence reworded, “Write your answer.”
- Page 18 Second bullet reworded, “Then, close your test booklet and raise your hand to turn in your test materials.”
- Page 20 Directions revised to read as follows:
Directions:
 Today, you will take Unit 2 of the Grade 8 Mathematics Practice Test. You will be able to use a calculator.
- Read each question. Then, follow the directions to answer each question. Write your answer. If you need to change an answer, erase it, cross it out or start a new line. If a question asks you to show or explain your work, you

must do so to receive full credit. Work done on scratch paper will not be scored.

If you do not know the answer to a question, you may go on to the next question. If you finish early, you may review your answers and any questions you did not answer in this unit ONLY. Do not go past the word STOP.

Page 21

Directions revised to read as follows:

Answer Grid Items

Several items in this test require you to enter your answer on a special grid. The sample pictures of the answer grids are omitted in braille. The answer grid has seven answer boxes to write a numeral or decimal point. The first answer box is only used to indicate the negative symbol.

Directions for Completing the Answer Grids

1. Work the problem and find an answer.
2. Give your answer by using a braille writing device (e.g., braillewriter, braille note-taker, slate and stylus) or other method so that when transcribed, it will fit into the answer grid.
3. Answers may take up to seven spaces to fit in the grid. Answers may include a numeral or decimal point, but do not count braille numeric indicators when determining use of the six spaces in the grid. Do not leave a blank space in the middle of an answer.
4. Fractions cannot be entered into an answer grid and will not be scored. Insert fractions as decimals.

Page 22, #17

Transcriber's Note— Each answer choice contains Quadrant I of a Cartesian grid. Every line on the x- and y-axis are labeled with values ranging from 0 to 12 in increments of 1. The x-axis is labeled Number of Liters of Solution and the y-axis is labeled Number of Liters of Bleach. A ray is plotted on each graph.

A picture description is inserted as a Transcriber's Note for each answer choice:

- A. Diagonal ray begins at (0, 0) and moves to the right 1 and up 1 at each increment.
- B. Diagonal ray begins at (0, 0) and moves to the right 1 and up 5 at each increment.
- C. Horizontal ray begins at (0, 2) and moves straight to the right at each increment.
- D. Diagonal ray begins at (0, 0) and moves to the right 5 and up 1 at each increment.

Page 23, #18

Part B: Last sentence reworded, "Write your answer."

- Page 24, #19 A picture description is inserted as a Transcriber's Note— Line graph: The title is Car P. The x-axis is labeled Amount of Gasoline (gallons) and the values range from 0 to 6 in increments of 1. Starting at 0, every grid line is labeled in increments of 1. The y-axis is labeled Distance (miles) and the values range from 1 to 180 in increments of 20. Starting at 0, every grid line is labeled in increments of 20. The data is recorded as follows:
- 1 gallon ~ 27 miles
 2 gallons ~ 65 miles
 3 gallons ~ 87 miles
 4 gallons ~ 132 miles
 5 gallons ~ 160 miles
- Last sentence reworded, "Write your answer and your work or explanation."
- Page 25 #20 A picture description is inserted as a Transcriber's Note— Figure: Lines RS and UV are horizontal. Transverse Lines RV and SU intersect at Point T creating Triangles RTS and VTU.
 Part A: Last sentence reworded, "Write your explanation."
 Part B: Last sentence reworded, "Write your answer and your work or explanation."
- Page 26, #21 A picture description is inserted as a Transcriber's Note— Coordinate grid: Both the x- and y-axis values are labeled from -7 to 7 in increments of 1. A line with arrowheads on both ends is plotted on the grid with the following coordinates: (-6, -3); (-3, -2); (0, -1); (3, 0); (6, 1).
- Page 29, #22 Part B: Last sentence reworded, "Write your work or your explanation."
 Part C: Last sentence reworded, "Write your expression."
- Page 30 Second bullet reworded, "Then, close your test booklet and raise your hand to turn in your test materials."
- Page 32 Directions revised to read as follows:
Directions:
 Today, you will take Unit 3 of the Grade 8 Mathematics Practice Test. You will be able to use a calculator.
- Read each question. Then, follow the directions to answer each question. Write your answer. If you need to change an answer, erase it, cross it out or start a new line. If a question asks you to show or explain your work, you must do so to receive full credit. Work done on scratch paper will not be scored.

If you do not know the answer to a question, you may go on to the next question. If you finish early, you may review your answers and any questions you did not answer in this unit ONLY. Do not go past the word STOP.

Page 33

Directions revised to read as follows:

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Answer Grid Items

Several items in this test require you to enter your answer on a special grid. The sample pictures of the answer grids are omitted in braille. The answer grid has seven answer boxes to write a numeral or decimal point. The first answer box is only used to indicate the negative symbol.

Directions for Completing the Answer Grids

1. Work the problem and find an answer.
2. Give your answer by using a braille writing device (e.g., braillewriter, braille note-taker, slate and stylus) or other method so that when transcribed, it will fit into the answer grid.
3. Answers may take up to seven spaces to fit in the grid. Answers may include a numeral or decimal point, but do not count braille numeric indicators when determining use of the six spaces in the grid. Do not leave a blank space in the middle of an answer.
4. Fractions cannot be entered into an answer grid and will not be scored. Insert fractions as decimals.

Page 34, #23

Second sentence reworded, "The cylinder and the cone have the same base ($r = 4$ ft) and the same height ($h = 3$ ft).

Page 35, #24

A picture description is inserted as a Transcriber's Note— Line AB is 10 cm. Line BC is 10 cm. Line BD is 8 cm.
Last sentence reworded, "Write your answer."

Page 37, #26

Last sentence reworded, "Write your answers and your work or explanation."

Page 38, #27

Part B: Last sentence reworded, "Write your explanation for each selection."

Page 39, #28

A picture description is inserted as a Transcriber's Note— Coordinate grid: Both the x- and y-axis values are labeled from -9 to 9 in increments of 1. Diagonal line t crosses through $(-8, -2)$; $(0, 2)$; and $(8, 6)$. Right triangles ECA and FDB are plotted along line t . The coordinates of each triangle are identified below followed by the coordinates of each vertex in alphabetical order:

Triangle ECA: $(-2, 4)$; $(4, 4)$; $(-2, 1)$

Triangle FDB: (2, 5); (6, 5); (2, 3)

Point A: (-2, 1)

Point B: (2, 3)

Point C: (4, 4)

Point D: (6, 5)

Point E: (-2, 4)

Point F: (2, 5)

- Page 40, #29 Part A: Last sentence reworded, "Write the monthly payment and your work or explanation."
- Page 41, #29 Part B: Last sentence reworded, "Write your answers and your work or explanations."
- Page 42 Second bullet reworded, "Then, close your test booklet and raise your hand to turn in your test materials."