Key Points Lesson 15

Lessons 1 through 14 introduced you to Unified English Braille (UEB) that is used when writing in a literary context. This lesson provides a brief introduction to two ways to write mathematics material; one is using the UEB code and the other is using the Nemeth code. In the United States, as of January 4, 2016, both codes are being used.

In Lesson 4 you learned the numbers in Unified English Braille. To braille numbers you place the numeric indicator (::) in front of the first 10 letters of the alphabet.

 1
 2
 3
 4
 5
 6
 7
 8
 9
 0

Lesson 4 briefly mentioned that in Nemeth code, the numbers drop down to the lower part of the cell.

| | · • • · | | | | | | | · • • | · • · • |
|---|---------|---|---|---|---|---|---|-------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

In Nemeth code the numbers are in the lower part of the cell, so that you can combine them with letters. For example: 4a(::::::). In Unified English Braille a letter indicator (::) is used to tell the braille reader that the next cell is a letter. For example: 4a(:::::::).

There are signs for each mathematical symbol in both Nemeth code and Unified English Braille. The table below shows you the symbols.

| Symbol Name | Print | Nemeth | UEB |
|-------------------|------------|---------------------------------------|---|
| plus sign | + | · • · · • • | · · · · · · · · · · · · · · · · · · · |
| minus sign | - | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| Multiplication | • or x | | |
| Division | ÷ | | |
| Equals | = | | |
| Percent | % | | |
| Decimal point | \$ | · • · · · • | •• |
| Question mark | ? | | · · · · · · · · · · · · · · · · · · · |
| to fill in answer | | | |
| Dash for | | •••••• | · • · · · · · · · · · · · · · · · · · · |
| answer | | | |
| parentheses | () | | |
| Number with | (13) | • • • • • • • • • • • • • • • • • • • | |
| parentheses | | | |
| Comma | , | · · · · · · · · · • | ••• |
| Degrees | 0 | | |
| Letter sign | No | · · · • • | |
| | equivalent | | |

Examples:

Print: 329 + 5 = 334Nemeth: 329 + 5 = 334UEB: 329 + 5 = 334 Print: $450 \div 10 = ?$ Nemeth: Print: 40% of 12 = \$4.8Nemeth: UEB: Print: (5b+3c) =Print: \$85.33 - 12.90 = ? Nemeth: ÷ Print: 2, ___, 6 2. . 6 UEB: Print: Round 1,498 to the nearest hundred. Nemeth: Print: Bill has 49 candy bards and Sue has 13 gum balls. How many do they have together? Nemeth: UEB: Created by Dr. L. Penny Rosenblum June 2017 3

Reading 15 Nemeth

Reading 15 UEB

Reading 15 Answer Key

5 + 10 =_____ \$36 - ? = \$ 24 $5 \times 8 - ? = 37$ _____ + 1.50 = 3.75 $71.0 \cdot 35.25 = ?$ _____, 10, 15, and 20 Stacy has \$80 and Chuck has \$65 who has more? 9% of \$65.30 is _____

(84a + 4) + (35b - 10) = 240

Writing 15

What is the area of a rectangle that is 2 feet on one side and 7 feet on the other?

 $27 \times ? = 621$

\$74.23 ÷ 3 = ____

I paid 90 cents for 12 oranges and found that 3 of them were spoiled. How much did each good orange cost?

51,858 - ? = 402

? + 64 + 58 + 37 = 265

 $15bc = 3b \times 5c$

30 is 5% of ?

Writing 15 Answer Key Nemeth

Writing 15 Answer Key UEB