

## **LESSON 14**

- FUNCTION NAMES AND THEIR ABBREVIATED FORMS

*Spatial Arrangements, continued*

- SQUARE ROOT DIVISION
- OTHER PRINT LAYOUTS SHOWING DIVISION

*Answers to Practice Material*

### **LESSON PREVIEW**

Rules regarding function names and their abbreviated forms are presented. Many examples are shown. The study of spatial arrangements continues with a other forms of division problems: square root division, partial quotient layout, synthetic division, and others.

## ***FUNCTION NAMES AND THEIR ABBREVIATED FORMS***

[NC Rule 18]

### **14.1 List of Common Function Names and Their Abbreviated Forms**

The most common function names and their abbreviated forms are listed below. Function names that do not appear in this list are subject to the same rules taught in this lesson. Note that abbreviated function names are printed in regular type.

<u>Function Name</u>	<u>Abbreviated Function Name</u>
amplitude	amp
antilogarithm	antilog
arc	arc
argument	arg
cologarithm	colog
cosine	cos
hyperbolic cosine	cosh
cotangent	cot
hyperbolic cotangent	coth
coversine	covers
cosecant	csc
hyperbolic cosecant	csch
cotangent	ctn
hyperbolic cotangent	ctnh
determinant	det
error function	erf
exponential	exp
exsecant	exsec
gradient	grad
haversine	hav
imaginary part	im
infimum	inf
limit	lim
upper limit	$\overline{\text{lim}}$ or $\overline{\text{limit}}$
lower limit	$\underline{\text{lim}}$ or $\underline{\text{limit}}$
natural logarithm	ln
logarithm	log
maximum	max
minimum	min
modulo	mod
real part	re
secant	sec















---

**PRACTICE 14B**

- (1)  $\sin \theta / \cos \theta$
  - (2)  $\sin 2\alpha = 2 \sin \alpha \cos \alpha$
  - (3)  $\frac{\tan 90^\circ}{\cot 90^\circ}$
  - (4)  $r[3 \cos \theta + 4 \sin \theta] = 5$
  - (5)  $7(\cos 20^\circ + i \sin 20^\circ)$
  - (6)  $\frac{1}{2} \ln |\sec 2t + \tan 2t| + C$
  - (7)  $a \sin \frac{x}{a} \cdot \frac{1}{a} = \sin \frac{x}{a}$
-



















⠠⠠⠠⠠	lower limit	<u>lim</u>
⠠⠠⠠⠠⠠⠠	lower limit	<u>limit</u>

⦿  $\lim_{n \rightarrow \infty} f_n(x)$

⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

⦿  $\lim_{n \rightarrow \infty} f_n(x)$

⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

**PRACTICE 14E**

1. Find  $\lim_{x \rightarrow 0.6} 2^{25x^2 - 10x - 1}$ .
2. Formulate a precise definition for  $\lim_{x \downarrow -\infty} f(x) = L$ .
3. If  $\overline{\lim}_{n \rightarrow \infty} a_n = A$  and  $\overline{\lim}_{n \rightarrow \infty} b_n = B$ , must it be true that  $\overline{\lim}_{n \rightarrow \infty} (a_n + b_n) = A + B$ ?
4. Find  $\overline{\lim}_{n \rightarrow \infty} a_n$  when  $a_n = (-1)_n$ .
5.  $\lim_{x \rightarrow 0} \csc x \ln(1 + x)$

## Spatial Arrangements, continued

You may wish to revisit the Review of Format for Spatial Arrangements in Lesson 10. NOTE: Code switch indicators are omitted and blank lines are implied in the examples that do not contain narrative.

### ***SQUARE ROOT DIVISION***

[NC Rule 25.6]

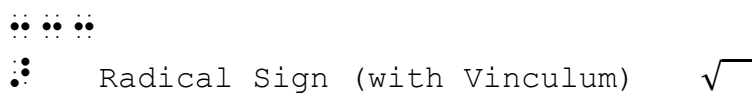
#### 14.9 Review of Terminology

Radical expressions were presented in Lesson 8. When an answer is shown, a spatial arrangement is required. Here are the names of the parts of a radical expression. The line above the radicand is the vinculum.  $\sqrt{\quad}$  is the radical sign.

$$\begin{array}{l} 12 \quad \text{root} \\ \sqrt{144} \quad \text{radicand} \end{array}$$

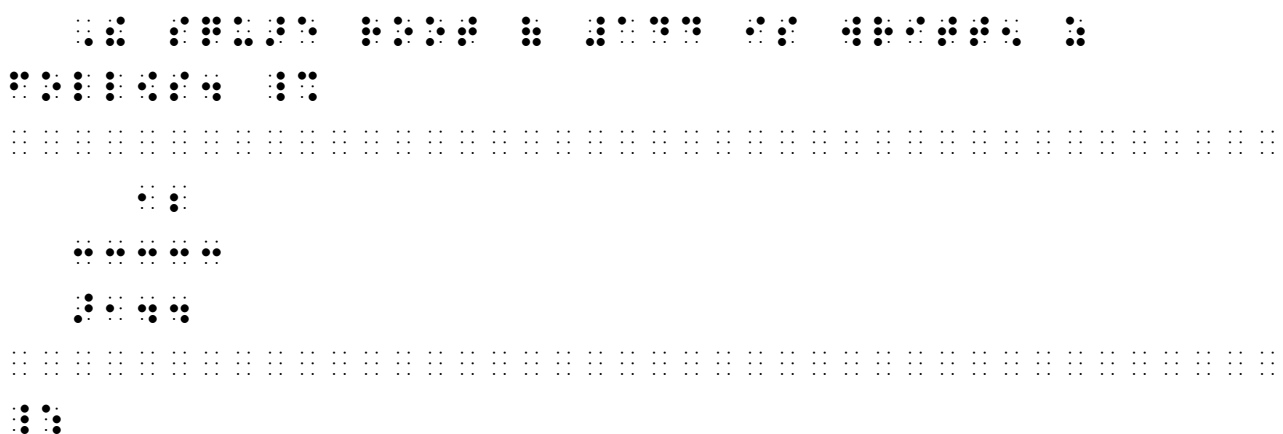
#### 14.10 Spatial Arrangement for Square Root Problems

In the spatially arranged radical expression, the first cell of the vinculum is placed directly above the radical symbol. The last cell of the vinculum extends one cell beyond the radicand.


--

#### Example 14-25

The square root of 144 is 12, and is written as follows.

$\begin{array}{l} 12 \\ \sqrt{144} \end{array}$


- a. **Solving a Square Root Problem.** The procedures used with long division arrangements are applied to a spatially arranged square root problem. Review alignment and spacing rules for long division in Lesson 10. The vertical line that separates the parts of the problem is represented by dots 456. Spacing between digits replicates spacing in print. Follow print regarding the alignment of the vertical lines.

Example 14-26

1	$\begin{array}{cccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \\ \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
2	$\begin{array}{cccccccccccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	$\begin{array}{r} 6.48 \\ \sqrt{42.0000} \\ \hline 36 \end{array}$
3	$\begin{array}{cccccccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	$\begin{array}{r} 124 \overline{)600} \\ \times 4 \quad 496 \\ \hline 1288 \overline{)10400} \\ \times 8 \quad 10304 \\ \hline 96 \end{array}$
4	$\begin{array}{cc} \cdot\cdot & \cdot\cdot \end{array}$	
5	$\begin{array}{cccccccccccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
6	$\begin{array}{cccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \\ \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
7	$\begin{array}{cccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \\ \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
8	$\begin{array}{cccccccccccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
9	$\begin{array}{cccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \\ \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
10	$\begin{array}{cccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \\ \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
11	$\begin{array}{cccccccccccc} \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot & \cdot\cdot \end{array}$	
12	$\begin{array}{cc} \cdot\cdot & \cdot\cdot \end{array}$	

*All lines: Spacing between digits matches print in order to attain proper vertical alignment.*  
*Line 2: The vinculum begins in the cell above the radical sign and ends one cell beyond the rightmost character in the entire arrangement.*  
*Lines 2, 5, 8, 11: Separation lines are all the same width.*  
*Lines 6, 7, 9, 10: These vertical lines align below the radical sign.*  
*Lines 7, 10: The multiplication cross is unspaced from the multiplier.*

Example 14-27

$$\begin{array}{r}
 1 \quad \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \\
 2 \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \\
 3 \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \\
 4 \quad \quad \quad \cdot\cdot \cdot\cdot \\
 5 \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \\
 6 \quad \cdot\cdot \cdot\cdot \cdot\cdot \quad \cdot\cdot \cdot\cdot \\
 7 \quad \quad \cdot\cdot \cdot\cdot \quad \cdot\cdot \cdot\cdot \\
 8 \quad \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \\
 9 \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \quad \cdot\cdot \cdot\cdot \cdot\cdot \\
 10 \quad \quad \cdot\cdot \cdot\cdot \quad \cdot\cdot \cdot\cdot \cdot\cdot
 \end{array}$$

$$\begin{array}{r}
 406 \\
 \sqrt{164836} \\
 16 \\
 80 \overline{) 48} \\
 0 \quad 00 \\
 806 \overline{) 4836} \\
 6 \quad 4836
 \end{array}$$

Lines 9-10: These vertical lines are aligned to the right of the vertical lines on lines 6-7, as printed.

**14.11 Placement of Identifiers with Spatial Radical Expressions**

An identifier, if present, is placed on the line with the radicand. One blank space is left between the last symbol in the identifier and the symbol furthest left in the overall arrangement, including separation lines.

Example 14-28

$$\begin{array}{r}
 \quad \quad \quad \cdot\cdot \quad \cdot\cdot \cdot\cdot \\
 \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \\
 \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \quad \cdot\cdot \cdot\cdot \quad \cdot\cdot \cdot\cdot \\
 \quad \quad \quad \cdot\cdot \quad \cdot\cdot \\
 \quad \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \\
 \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \quad \cdot\cdot \quad \cdot\cdot \cdot\cdot \\
 \quad \quad \quad \cdot\cdot \quad \cdot\cdot \quad \cdot\cdot \cdot\cdot \\
 \quad \quad \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot \cdot\cdot
 \end{array}$$

$$\begin{array}{r}
 4. \quad \quad \quad 7 \ 4. \\
 \quad \quad \quad \sqrt{5476.} \\
 \quad \quad \quad 49 \\
 144 \overline{) 576} \\
 \quad \quad \quad 576
 \end{array}$$

---

PRACTICE 14F

(A)  $\sqrt{33.0000}$

$$\begin{array}{r} 5.74 \\ \hline 25 \\ \hline 107 \overline{) 800} \\ \times 7 \quad \underline{749} \\ 1144 \overline{) 5100} \\ \times 4 \quad \underline{4576} \\ 524 \end{array}$$

---



---

*Instructions:* Review Section 10.13.6.d regarding alignment of the minus signs.

**PRACTICE 14G**

$$\begin{array}{r|l} 132 & \\ 6 \overline{)792} & \\ \underline{-600} & 100 \\ 192 & \\ \underline{-60} & 10 \\ 132 & \\ \underline{-60} & 10 \\ 72 & \\ \underline{-60} & 10 \\ 12 & \\ \underline{-12} & 2 \\ 0 & \end{array}$$



### 14.13 Synthetic Division [NC Rule 25.7]

Synthetic division is a method of showing division of polynomials. There is not a standard print layout. The transcription replicates the print design, following alignment rules discussed below, and using the standard separation line and vertical line of the Nemeth Code. Here is an example of one possible layout of a synthetic division problem.

$$\begin{array}{r|rrrr}
 +2 & 1 & -3 & +4 & +5 \\
 & & +2 & -2 & +4 \\
 \hline
 & 1 & -1 & +2 & +9
 \end{array}$$

The parts to this problem are labeled as follows.

$$\begin{array}{r|rrrr}
 \textit{divisor} + 2 & 1 & -3 & +4 & +5 & \textit{dividend} \\
 & & +2 & -2 & +4 & \textit{product} \\
 \hline
 \textit{quotient} & 1 & -1 & +2 & +9 & \textit{remainder}
 \end{array}$$

14.13.1 **Alignment and Spacing.** In the examples which follow, look carefully at the vertical alignment. The numerals in the dividend, product, and quotient are aligned in vertical columns as in the print copy. Signs of operation, if any, are also vertically aligned. At least one blank cell is left between adjacent columns.

14.13.2 **Vertical Line.** Dots 456 represent the vertical line in the print copy. The braille symbol is shown between the divisor and the division arrangement, beginning on the line with the dividend and ending on the line with the product. No space is left between the vertical line and the dividend or divisor. The separation line (dots 25) extends from the vertical line to one cell beyond the entire arrangement. Another unspaced vertical line is transcribed between the quotient and the remainder.

#### Example 14-30

$$\begin{array}{r|rrrr}
 +2 & 1 & -3 & +4 & +5 \\
 & & +2 & -2 & +4 \\
 \hline
 & 1 & -1 & +2 & +9
 \end{array}$$

$$\begin{array}{r|rrrr}
 +2 & 1 & -3 & +4 & +5 \\
 & & +2 & -2 & +4 \\
 \hline
 & 1 & -1 & +2 & +9
 \end{array}$$

*Note the vertical alignment of the numerals and the operation signs.*

*In this problems, the divisor is +2, the dividend is 1 -3 +4 +5, the product is +2 -2 +4, the quotient is 1 -1 +2, and the remainder is +9.*

14.13.3 **Another Print Style—Divisor on the Right.** If the divisor is printed to the right of the overall problem, the same layout is followed in braille. Follow the alignment and spacing rules outlined above, particularly noting that at least one blank cell must be left between adjacent columns. The vertical lines are unspaced from the dividend and the divisor, as well as from the quotient and the remainder.

Example 14-31

$$\begin{array}{r} 3 \quad -7 \quad -1 \quad -23 \quad | \quad 3 \\ \quad +9 \quad +6 \quad +15 \\ \hline 3 \quad +2 \quad +5 \quad | \quad -8 \end{array}$$

14.13.4 **Another Print Style—Boxed Divisor.** If the divisor appears boxed in on two sides, the boxing is omitted. A vertical line between the divisor and the dividend is inserted in order to differentiate the divisor from the rest of the arrangement, even though this vertical line does not appear in print. Follow the same alignment and spacing rules outlined above. The first example shows the divisor at the left; the second shows the divisor at the right.

Example 14-32

$$\begin{array}{r} \boxed{-1} \quad 1 \quad +2 \quad +2 \quad +4 \\ \quad \quad -1 \quad -1 \quad -1 \\ \hline 1 \quad +1 \quad +1 \quad | \quad +3 \end{array}$$

Example 14-33

$$\begin{array}{r}
 1 \quad +2 \quad +2 \quad +4 \quad | \quad -2 \\
 \quad -2 \quad +0 \quad -4 \\
 \hline
 1 \quad +0 \quad +2 \quad +0
 \end{array}$$

$$\begin{array}{r}
 \cdot \quad \cdot \cdot \cdot \quad \cdot \cdot \cdot \quad \cdot \cdot \cdot \cdot \cdot \cdot \cdot \\
 \quad \cdot \cdot \cdot \quad \cdot \cdot \cdot \quad \cdot \cdot \cdot \cdot \\
 \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \\
 \cdot \quad \cdot \cdot \cdot \quad \cdot \cdot \cdot \quad \cdot \cdot \cdot
 \end{array}$$

*Note that this example has no remainder.*

14.13.5 **Placement of Identifiers with Synthetic Division.** An identifier, if present, is placed on the line with the dividend (the top line of the arrangement, in this case). One blank space must be left between the last symbol in the identifier and the symbol furthest left in the overall arrangement, including separation lines.

Example 14-34

$$197. \quad | +2 \quad 1 \quad +6 \quad -1 \quad -30 \\
 \quad \quad \quad \quad \quad \quad \quad +2 \quad +16 \quad +30$$

$$\begin{array}{r}
 \cdot \cdot \cdot \cdot \cdot \cdot \cdot \quad \cdot \cdot \cdot \cdot \cdot \cdot \quad \cdot \cdot \cdot \quad \cdot \cdot \quad \cdot \quad \cdot \cdot \cdot \cdot \cdot \\
 \quad \quad \quad \quad \quad \quad \quad \cdot \cdot \quad \cdot \cdot \cdot \cdot \quad \cdot \cdot \cdot \cdot \cdot \quad \cdot \cdot \cdot \cdot \cdot \\
 \quad \quad \quad \quad \quad \quad \quad \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot
 \end{array}$$

*Notice the vertical alignment of the operation signs. The numerals are aligned by place value, with the "1" directly above the "6" of "16".*

---

### PRACTICE 14H

**Dividing Polynomials:** Divide  $(3x^4 + 12x^3 - 5x^2 - 18x + 8) \div (x + 4)$

$$\begin{array}{r|rrrrr} -4 & 3 & 12 & -5 & -18 & 8 \\ & & -12 & 0 & 20 & -8 \\ \hline & 3 & 0 & -5 & 2 & 0 \end{array}$$

*Answer:*  $3x^2 - 5x - 2$

---

*For further practice, see Appendix A—Reading Practice.*

### EXERCISE 14

Prepare Exercise 14 for your grader.



PRACTICE 14C

1     ⠠⠠

2     ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠   ⠠⠠⠠⠠⠠

3     ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠   ⠠⠠⠠⠠⠠

4     ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠

5     ⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠

6         ⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠

7     ⠠⠠⠠⠠

8         ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

9     ⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠

10         ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠

11         ⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠

12     ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠

13         ⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

14     ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠

15         ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠

PRACTICE 14D

1     ⠠⠠

2     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠

3     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠

4     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠⠠⠠

5     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠

6     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠

7     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠

8     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠

9     ⠠⠠⠠⠠⠠   ⠠⠠⠠⠠⠠⠠⠠⠠⠠   ⠠⠠⠠   ⠠⠠⠠⠠   ⠠⠠⠠⠠







