

Lesson 14

Roman Numerals, Fractions, Mixed Numbers, Mathematical Signs of Operation, Superscripts and Subscripts, Electronic Addresses, Line Continuation Indicator, More On Translation Software

14.1 Roman Numerals [UEB §8.6.3, UEB Technical Materials 2.6]

14.1a In general. Use the braille letters, just as in print, when transcribing roman numerals. Observe the normal use of capital indicators, grade 1 indicators, and the standing alone rule. Examples:

V	XL	x	iii
⠠⠠⠠⠠⠠	⠠⠠⠠⠠⠠⠠	⠠⠠⠠	⠠⠠⠠
VI-X	vi-x	V—X	v:x
⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠	⠠⠠⠠⠠⠠⠠⠠	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠	⠠⠠⠠
pages ix-xii	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠		
see §VII	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠		
aVII	avii	WWII (World War II)	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠
XXVa	xxA	VI.A	
⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠	⠠⠠⠠⠠⠠	⠠⠠⠠⠠⠠⠠⠠⠠⠠	
10th	xth	21st	XXIst
⠠⠠⠠⠠⠠⠠	⠠⠠⠠	⠠⠠⠠⠠⠠⠠	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠
Ier	VI ^e (French ordinal ending)	5sten (German ordinal ending)	
⠠⠠⠠⠠	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠	⠠⠠⠠⠠⠠⠠⠠⠠⠠	

Examples:

$$\frac{1}{2} - \frac{3}{4} \quad \frac{1}{2} - 1\frac{1}{2}$$

$$\frac{1}{2} - 1$$

$$3\frac{1}{2} - 4\frac{1}{2} \quad 2\frac{1}{2} - 3$$

$$0 - \frac{1}{2} \quad 9 - 8\frac{1}{2}$$

14.4 Printed on Same Level of Type

When a diagonal slash occurs between numbers that are printed on the same level of type, the two-cell slash should represent the dividing line. The slash terminates numeric mode, and therefore the numeric indicator is repeated following the slash. Example:

$$\frac{3}{4} \text{ lb of butter}$$

He wrote 15/30 on the list.

$$15/30$$

A waltz is played in 3/4 time.

$$3/4$$

14.5 Mathematical Signs of Operation

Unified English Braille contains equivalents for nearly all print mathematical symbols. However, for many years, in the United States, mathematical expressions in textbooks and classroom material and books on mathematics have been brailled using a system called the *Nemeth Braille Code for Mathematics and Science Notation*. The code is quite different from UEB and should only be studied after the ability to transcribe non-technical materials has been thoroughly mastered.

In this course, you will learn some common UEB symbols that are often found in general literature, including cookbooks, newspaper articles, and the like.

2. The young ballistics expert determined that death had been caused by a .32-caliber automatic.
3. He bought the stock at 85 $\frac{5}{16}$ and sold it at 88 $\frac{15}{16}$.
4. A rod = $5\frac{1}{2}$ yd., or $16\frac{1}{2}$ ft.
5. The length of the astronomical year is about $365\frac{1}{4}$ days, or 365 da., 5 hr., 48 min., 45.51 sec.
6. After deducting withholding tax, $6\frac{1}{2}\%$ for retirement and \$3.75 for life insurance, his take-home pay amounted to \$463.29 every week.
7. He won the match in three straight sets: 6-3, 6-2, and 6-2, although his opponent had been a 3-1 favorite.
8. General Custer's men were armed with .45/70 Springfield rifles.
9. The cherry pie recipe calls for $2\frac{1}{2}$ -3 cups of sugar.
10. The board he cut was $\frac{1}{2}$ - $\frac{3}{4}$ in. too long.
11. The rug measured $9' \times 12'$, but the room was $8' \frac{1}{2}'' \times 11' \frac{3}{4}''$.
12. $E = mc^2$ expresses the theory of relativity.
13. Visit <<http://www.greatbooks.org/bookshelves/snid=243>> for more details.
14. The 1st Battalion - 64th Armor Regiment is often referred to as the 1/64.

14.8 More On Braille Translation Software

14.8a Character Styles. In addition to the paragraph styles discussed in Lesson 13, there are also styles meant to be applied to specifically selected text rather than to an entire paragraph. For instance, when working with the print version of a document, applying the subscript or superscript attribute to the appropriate text will cause the correct braille indicators to appear when the document is translated to braille. Always be sure to check the results.

14.8b Numeric Spaces. When the use of numeric spaces (studied in Lesson 13) is appropriate within a complete number, use your word processor or braille translation software to insert a "hard space" or "non-breaking space" where the numeric space should occur. This should cause numeric spaces to appear when the document is translated from print to braille.

EXERCISE

Prepare the following exercise for submission to the instructor. Use a 1-3 margin. Transcriber's notes need not be added to this exercise material. When you have successfully completed this exercise, your instructor will

provide you with an additional reading exercise to complete before proceeding to Lesson 15.

LESSON 14

1. The high jump was won by Samuel Speed III, who cleared the bar at 6 ft., $10\frac{3}{4}$ in. — $\frac{1}{4}$ in. higher than the previous school record.
2. At $6\frac{1}{2}\%$ interest his investment of \$3700.00 yielded a return of just \$240.50.
3. In 1952 the principal causes of accidents were: automobiles, 40%; at home, 22.5%; sports and recreation, 15.4%; pedestrians, 8.3%; travel, 6.6%.
4. In the late 19th century the American Experience Table of Mortality gave the life expectancy at age 10 as 48.72 years and at age 95 as .50 years.
5. Find the Diamonds+ location nearest you by calling 345 282 9832 or by visiting www.diamondsplus.net/292=NearbyStoreLocations.php.
6. For many years a minute of silent prayer was observed each November 11th, 11:00–11:01 a.m., to commemorate the signing of the armistice ending World War I.
7. Friday, 2-4 p.m., will be devoted to interviewing applicants for the new position.
8. The banquet proceedings will be live tweeted from @MSPNews beginning promptly at 6:30 p.m; follow hashtag #MSP2015 for other comments.
9. Visit our Web site at: http://www4.rigley_13sim/office.org/index.
10. With $\frac{2}{3}$ of the precincts already reported, the Governor leads his nearest competitor 189,769–160,323, though he had been given less than a 50-50 chance of winning by the pollsters.
11. After 15 innings the two teams were still deadlocked 3–3.
12. The motor number of the stolen car is 030/692.
13. To-day AT&T stock closed at $36\frac{3}{4}$, up $\frac{5}{8}$.
14. Articles V-VII of the society's constitution deal with the powers and duties of the officers.
15. The title page at the beginning of every braille volume lists the number of braille pages contained in that volume — thus, Pages i-xix and 1-79.
16. Pope John XXIIIrd did much to promote the ecumenical movement.
17. King Louis XVth of France is supposed to have said, "After me, the deluge."¹⁴

18. Many cities were demolished by the end of World War II—III will probably see the destruction of civilization.
19. Charles I (1600-1649) was beheaded by the Parliamentary faction in England.
20. The mysterious crate measured 6'H x 9'W x 2'D.
21. Move all of the little girls' dresses, sizes $4\frac{1}{2}$ -6, to the next rack.
22. Barber, please trim my hair $\frac{1}{4}$ - $\frac{1}{2}$ inch.
23. You need not worry; a person's temperature is normal when it falls in the 98.4° - 99.2° range.
24. Add a hydrogen ion to H_2O to get heavy water, D_2O .
25. More than $\frac{1}{3}$ of our staff will be on vacation from 6/14 to 7/1.
26. Dad still has 20/20 vision, but he doesn't hear very well.