

LESSON 11

- SIGNS OF SHAPE
 - Basic Shapes
 - Shapes with Structural Modification
 - Shapes with Interior Modification
 - Other Details
 - Calculators and Keyboards
 - Icons
 - Shapes Used as Signs of Omission
 - Identified Signs of Shape
- TYPEFORM INDICATORS FOR MATHEMATICAL WORDS AND PHRASES
 - One Word in Italics or Boldface
 - A Phrase in Italics or Boldface

Format

- Mathematical Statements

Answers to Practice Material

LESSON PREVIEW

Signs of shape are studied in depth, including icons and calculator keys. The study of typeform in Nemeth continues with the study of emphasized words in mathematical context. Format guidelines are given for consistent transcription of mathematical statements.

SIGNS OF SHAPE

[NC Rule 17]

11.1 Definition

A sign of shape is a miniature picture of a geometric figure or an object.

△ (triangle)

∠ (angle)

○ (circle)

Basic Shapes




[NC 17.1]

A basic shape is represented by the shape indicator followed by a numeral, one or more letters, or a dot combination suggestive of the shape.

⋮	Shape Indicator
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11.2 Basic Signs of Shape Represented by Numbers—Regular Polygons

A closed figure that has equal sides and equal angles is called a regular polygon and is represented by the shape indicator followed by a numeral specifying the number of sides in the figure.

⋮⋮	Square (4-sided)	
⋮⋮⋮	Regular Pentagon (5-sided)	
⋮⋮⋮⋮	Regular Hexagon (6-sided)	

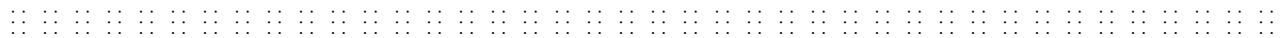
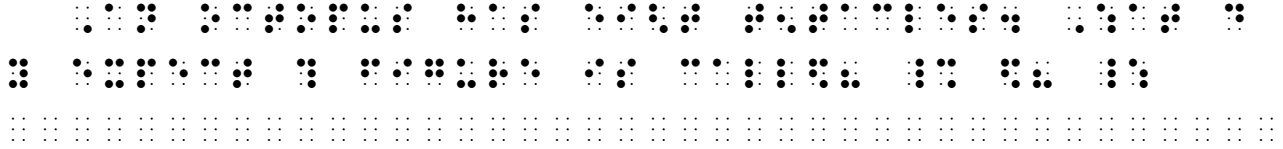
Note that the equilateral triangle, which is a regular polygon, is not represented by the number three. See 11.4.

- 11.2.1 **Unlisted Regular Polygons.** Symbols which represent regular polygons with seven or more sides are not provided for in the Nemeth Code. If the unlisted shape is a *regular polygon*—that is, it is a closed figure with equal sides and equal angles—the transcriber is instructed to devise a symbol in accordance with the principles above, based on the number of sides the shape has. It may be helpful to include a tactile drawing of the shape. Unlisted regular polygon constructions do not require a transcriber's note.

Refer to *Guidelines and Standards for Tactile Graphics* regarding shapes used in kindergarten through third grade materials such as counting symbols, pictographs, etc.

Example 11-1

An octopus has eight tentacles. What do you expect this figure is called?



In addition to the transcriber-devised symbol, the shape is presented as a tactile graphic at the first mention of this shape. The graphic's left margin is cell 1, according to Guidelines and Standards for Tactile Graphics. Follow that BANA document for drawing techniques.

11.3 Basic Signs of Shape Represented by Letters—Irrregular Polygons

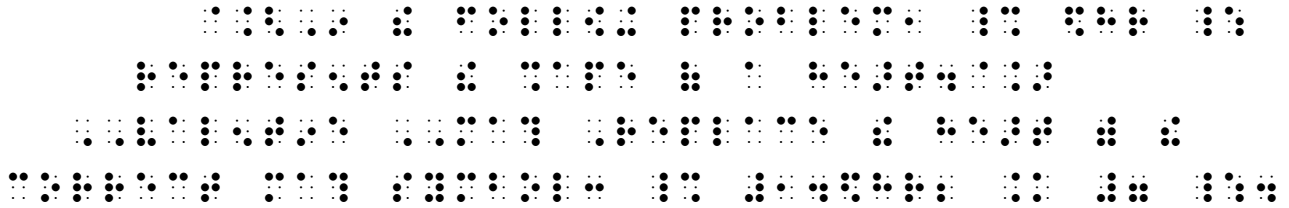
A closed figure which has at least two unequal sides and/or two unequal angles is called an *irregular polygon* and is represented by the shape indicator followed by a letter or a combination of letters suggestive of the name of the shape. (The derivation of the letter following the shape indicator is underlined in the list below.)

⠠⠠	<u>D</u> iamond	
⠠⠠⠠	Irregular <u>H</u> exagon	
⠠⠠⠠	Irregular <u>P</u> entagon	
⠠⠠	<u>P</u> arallelogram	
⠠⠠	<u>Q</u> uadrilateral	
⠠⠠	<u>R</u> ectangle	
⠠⠠	<u>R</u> hombus	
⠠⠠	<u>T</u> rapezoid	

11.3.1 Unlisted Irregular Polygons. You may come across a shape which is not provided for in the Nemeth Code. If the unlisted shape is an irregular polygon—that is, it is a closed figure with at least two unequal sides and/or two unequal angles—the transcriber is instructed to devise a symbol if it appears frequently in the transcription. Construct the symbol in accordance with the principles above. Be careful not to choose a letter or letter combination which already has

Example 11-4

VALENTINE MATH Replace the heart with the correct math symbol: $14 \heartsuit 2 = 7$.



The transcriber represents the heart shape with ⠠⠠⠠ since ⠠⠠ means "rhombus".

11.5 Basic Signs of Shape Represented by Other Dot Combinations

Three additional shapes are identified in the Nemeth Code.

⠠⠠	Angle	∠
⠠⠠⠠	Arc, Concave Downward	⤿
⠠⠠	Inverted Triangle	∇

11.6 Filled-In and Shaded Shapes

A filled-in or shaded closed shape (circle, diamond, square, etc.) is represented as such by the filled-in shape indicator or the shaded shape indicator. The appropriate indicator is placed between the shape indicator and the shape symbol.

⠠⠠	Filled-in shape indicator
⠠⠠	Shaded shape indicator

- ⠠⠠ ⠠⠠ ⠠⠠⠠⠠ (filled-in star)
- ⠠⠠ ⠠⠠ ⠠⠠⠠⠠ (shaded circle)
- ⠠⠠ ⠠⠠ ⠠⠠⠠⠠ (filled-in square)

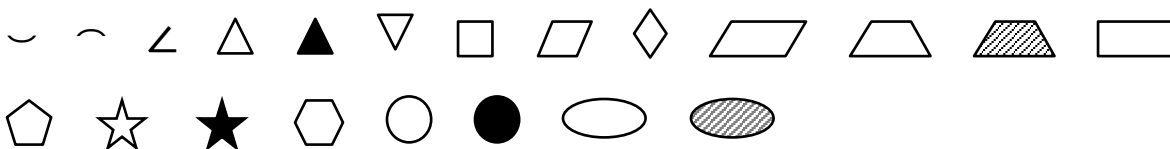
A filled-in square is often used to indicate the end of a long example or exercise. A filled-in square or rectangle used to indicate the end of a mathematical proof has its own special symbol. Proofs will be discussed in Lesson 12.

Shapes used as icons are discussed later in this lesson. See [11.26](#).

Instructions: Format the topic headings as cell-5 headings. Format each series of shapes as one paragraph, placing each opening Nemeth Code indicator at the beginning of each paragraph. Leave one space between each shape. Place as many shapes on one braille line that will fit before beginning a new line. Following the second topic heading, write a transcriber's note defining the flower and chicken shapes. Use "fl" to represent the flower and "ch" to represent the chicken.

PRACTICE 11A

Listed Shapes



Unlisted Shapes



Shapes with Structural Modification

[NC 17.5]

11.7 Definition and Construction

A shape with structural modification is one in which the general print form of a basic shape (such as *triangle*) is changed to show a more specific form (such as *right triangle*).

Basic shape:  Triangle

More specific form:  Right Triangle




Composite signs in which two or more signs of shape are combined are also structurally modified shapes, for example, two *angle* shapes in print combine to form the symbol for *adjacent angles*.

Basic shape:  Angle

More specific form:  Adjacent Angles



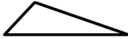

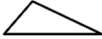
A shape with structural modification is represented by

- the basic shape symbol,
- followed by the structural shape-modification indicator,
- followed by a letter or an uncontracted combination of letters suggestive of the change in the shape,
- ending with the termination indicator which signals the end of the modification.

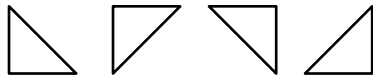
 Shape indicator
 Structural shape-modification indicator
 Termination indicator

11.8 Structurally Modified Triangles

The following five structurally modified triangles are identified in the Nemeth Code. Each symbol starts with the basic shape symbol for "triangle" ⠠⠠⠠. The derivation of the letter following the structural shape-modification indicator is underlined in the list of modified triangles below.

⠠⠠⠠⠠⠠⠠	<u>A</u> cute Triangle	
⠠⠠⠠⠠⠠⠠	<u>I</u> sosceles Triangle	
⠠⠠⠠⠠⠠⠠	<u>O</u> btuse Triangle	
⠠⠠⠠⠠⠠⠠	<u>R</u> ight Triangle	
⠠⠠⠠⠠⠠⠠	<u>S</u> calene Triangle	




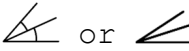









Know Your Triangles: Triangles are defined by the measure of angles and sides, not by orientation. For example, each of these is a "right triangle" because each contains a 90° angle.



Definitions can be found in Appendix B of this course ("Glossary of Terms").

11.9 Structurally Modified Angles

The following twelve structurally modified angles are identified in the Nemeth Code. Each symbol starts with the basic shape symbol for "angle" ⠠⠠. The derivation of the letter or letters following the structural shape-modification indicator is underlined in the list below.

Specific Angles		
⠠⠠⠠⠠⠠⠠	<u>O</u> btuse Angle	
⠠⠠⠠⠠⠠⠠	<u>R</u> ight Angle	
⠠⠠⠠⠠⠠⠠	<u>S</u> traight Angle	
Combined Angles		
⠠⠠⠠⠠⠠⠠	<u>A</u> djacent Angles	 or 
⠠⠠⠠⠠⠠⠠	<u>A</u> lternate <u>E</u> xterior Angles	
⠠⠠⠠⠠⠠⠠	<u>A</u> lternate <u>I</u> nterior Angles	
⠠⠠⠠⠠⠠⠠	<u>C</u> omplementary Angles	
⠠⠠⠠⠠⠠⠠	<u>C</u> orresponding Angles	
⠠⠠⠠⠠⠠⠠	<u>E</u> xterior Angles	
⠠⠠⠠⠠⠠⠠	<u>I</u> nterior Angles	
⠠⠠⠠⠠⠠⠠	<u>S</u> upplementary Angles	
⠠⠠⠠⠠⠠⠠	<u>V</u> ertical Angles	

11.10 Unlisted Shapes with Structural Modification








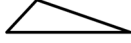

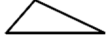

Structurally modified shapes which are not provided for in the Nemeth Code are formed in accordance with the principles above. Review the definition of *structural modification* in 11.7 to properly identify the unlisted shape. Be careful not to choose a symbol which already has an assigned meaning in the Nemeth Code. Refer to Appendix B of the Nemeth Code for a list of symbols already in use. Find the section for symbols beginning with dots 1246.

Explain the unlisted shape in a transcriber's note, giving the name or description of the symbol used. Include a drawing of the shape when appropriate.

Instructions: After completing the "Angle/Symbol" table, leave one blank line and then begin the "Triangle/Symbol" table. Do not use box lines. Review simple table format in Lesson 5.

PRACTICE 11B

Structurally Modified Shapes

<u>Angle</u>	<u>Symbol</u>	<u>Triangle</u>	<u>Symbol</u>
right		isosceles	
straight		right	
obtuse		acute	
complementary		obtuse	
supplementary		scalene	
vertical			

Shapes with Interior Modification

[NC 17.6]

11.11 Definition and Construction

A shape with interior modification is a basic shape (for example, a *circle*) within which a letter, a numeral, a sign of operation, or other sign appears.

- Basic shape: ○ Circle
More specific form: ⑧ Circle with number 8 inside
More specific form: ⊛ Circle with asterisk inside

A shape with interior modification is represented by












- the basic shape symbol,
- followed by the interior shape-modification indicator,
- followed by the symbol corresponding to the interior sign,
- ending with the termination indicator which signals the end of the modification.

⠠	Shape indicator
⠠⠠	Interior shape-modification indicator
⠠	Termination indicator

Symbols, numbers, words, etc. that represent keys on a calculator or a keyboard follow rules for keystrokes. See [11.23-11.25](#).




11.12 Circles with Interior Modification

Eleven circles with interior modification are identified in the Nemeth Code. Each symbol starts with the basic shape symbol for "circle" ⠠ followed by the interior shape-modification indicator. ⠠⠠ Notice that an interior numeral includes a numeric indicator and that the contracted form of the right-pointing arrow is not used.

⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Arrow Pointing Right	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Arrow Pointing Left	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Arrow Pointing Up	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Arrow Pointing Down	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Capitalized Letter	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Numeral	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Cross	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Dot	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Minus Sign	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Plus Sign	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Circle with Interior Vertical Bar	

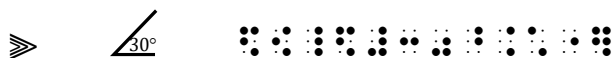
11.13 Angles with Interior Modification

Three angles with interior modification are identified in the Nemeth Code. Each symbol starts with the basic shape symbol for "angle" ⠠⠨⠠⠨ followed by the interior shape-modification indicator ⠠⠨⠠⠨

⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Angle with Interior Arc	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Angle with Interior Clockwise Arrow	
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	Angle with Interior Counterclockwise Arrow	

When the print copy uses the "angle with interior arc" symbol throughout the text to simply mean "angle", the two-cell angle symbol may be used: ⦶⦶. A transcriber's note is required to inform the reader of the substitution. Sample note on the Transcriber's Notes page: "In print, the angle shape image includes an interior arc."

When a number with internal measurement is encountered within the text, it is constructed as follows. (See also, [11.18](#), below.)



11.14 Rectangles and Squares with Interior Modification

One rectangle and seven squares with interior modification are identified in the Nemeth Code. Each symbol starts with the basic shape symbol for "rectangle" ⦶⦶ or for "square" ⦶⦶ followed by the interior shape-modification indicator ⦶⦶

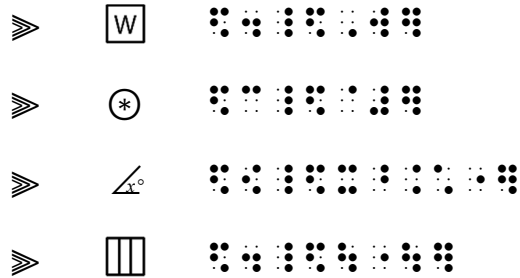
⦶⦶ ⦶⦶ ⦶⦶	Rectangle with Interior Horizontal Bar	
⦶⦶ ⦶⦶ ⦶⦶	Square with Interior Horizontal Bar	
⦶⦶ ⦶⦶ ⦶⦶	Square with Interior Vertical Bar	
⦶⦶ ⦶⦶ ⦶⦶	Square with Interior Diagonal from Lower Left to Upper Right	
⦶⦶ ⦶⦶ ⦶⦶	Square with Interior Diagonal from Upper Left to Lower Right	
⦶⦶ ⦶⦶ ⦶⦶ ⦶⦶	Square with Interior Diagonals	
⦶⦶ ⦶⦶ ⦶⦶	Square with Interior Dot	
⦶⦶ ⦶⦶ ⦶⦶	Square with Interior Numeral	

11.15 Words Enclosed in Shapes

Words enclosed in shapes are transcribed according to the methods for shapes with internal modification and must be enclosed within Nemeth switches. *Note:* Words that represent keys on a calculator or a keyboard follow rules for keystrokes. See [11.23-11.25](#).

11.18 Unlisted Shapes with Interior Modification

Shapes with interior modification not provided for in the Nemeth Code are formed in accordance with the principles for the construction of such shapes. Review the definition of interior modification in 11.11 to properly identify the unlisted shape.



A symbol which already has an assigned meaning in the Nemeth Code must not be used for the unlisted sign of shape. If necessary, explain the shape in a transcriber's note giving the name or description of the symbol used. Include a drawing of the shape when appropriate.

Instructions: Transcribe this as a simple list, not as columns.

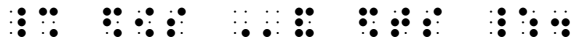
PRACTICE 11C

Squares with Interior Modification

Square with interior numeral 2	
Square with interior dot	
Square with interior horizontal bar	
Square with interior vertical bar	
Square with interior diagonals	

Example 11-7

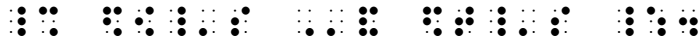
∠ s and △ s.



Each "s" follows the printed shape.

Example 11-8

∠'s and △'s.



A punctuation indicator precedes each apostrophe.

Example 11-9

(∠'s and △'s, and ○'s.)



Each "apostrophe-s" is punctuated mathematically because each is associated with a mathematical item.

11.22 Further Considerations Regarding Transcriber-Devised Shapes

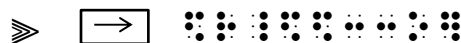
As previously noted, when encountering a shape not provided for in the Nemeth Code the transcriber may devise a symbol if that shape appears more than occasionally. The print shape should also be drawn as a raised-line diagram the first time the new symbol is introduced. In addition to the guidelines regarding unlisted shapes throughout this lesson, observe the following.

11.22.1 Usage Rules Regarding Interior Numerals and Arrows. Transcriber-devised forms should heed the following principles regarding interior numerals and arrows.

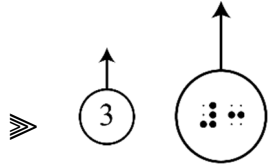
- a. The numeric indicator is used before a numeral or before a decimal point and a numeral following the interior shape-modification indicator.



- b. When a right-pointing arrow is part of a shape symbol, the shaft is transcribed. The contracted form of the right-pointing arrow is not used.



11.22.2 **Shapes Represented by Drawing.** Drawn-in shapes are often more readable than elaborate braille constructions. Since it is not possible to formulate specific rules for the selection of an appropriate form, the decision is left to the experience and judgment of the transcriber. Shapes may also be represented by a combination of drawing and braille symbols. For example, if a modified shape cannot be represented clearly by braille symbols alone, the shape can be drawn and the modification shown in braille.



PRACTICE 11D

1. $\square, \bigcirc, \triangle, \sphericalangle, \odot, \sphericalangle$.
2. (\bigcirc 's, \sphericalangle 's, and \triangle 's.)
3. $a \oplus (b \oplus c)$
4. $r \otimes s \otimes \underline{\quad} = rst$
5. How many \triangle can you find in the giant \square ?

Calculators and Keyboards

[NC 17.6.4]


11.23 The Keystroke Indicator


When a print shape with interior modification depicts a labeled calculator or computer key, a contracted form employing a keystroke indicator is used in braille. A keystroke is represented by


- the keystroke indicator,
- followed by the label printed on the calculator key or the computer key,
- ending with the termination indicator which signals the end of the modification.

⠠	Keystroke indicator
⠠	Termination indicator

11.23.1 **Shape in Print.** The keystroke indicator is used regardless of the shape of the key in the print copy.

➤  ⠠⠠⠠⠠⠠⠠

➤  ⠠⠠⠠⠠⠠⠠

➤  ⠠⠠⠠⠠⠠⠠⠠⠠⠠


The actual key shape(s) used in a particular text should be specified in a transcriber's note.
Sample transcriber's note:


Calculator keys are depicted in print as square shapes.

11.24 Other Details Concerning Keystrokes

11.24.1 **The Label.** Regarding the label depicted on the key, note the following.

- a. Capitalization is duplicated in braille. Words are transcribed without contractions.

➤  ⠠⠠⠠⠠⠠⠠⠠⠠⠠

➤  ⠠⠠⠠⠠⠠⠠⠠⠠⠠

- b. Follow the usual rules of the Nemeth Code for use of indicators.

➤  ⠠⠠⠠⠠⠠⠠⠠⠠

A baseline indicator is required before the termination indicator.

Instructions: Use the letter p for the "pencil" icon. After completing item E, center "SPECIAL SYMBOLS USED IN THIS VOLUME" and show how the icon will be listed on the Special Symbols page.

PRACTICE 11E

Input the equation using the x key. Press **SHIFT** and **ln** to access (e^x) . Press **=** for the y value. Now input these values into your calculator.

$(2 * 3 + 9) \div 5 =$ and
2 1 2 **o** **→ °C** **End**

1. Fill in the box with the correct exponent.

a. $x^2 \times x^4 = x^{\square}$


b. $y^3 \times y^{\square} = y^9$

c. $z^{\square} \times z^5 = z^{15}$


Problems marked with  indicate that you are to show your work.

A. $436 - \square = 102$

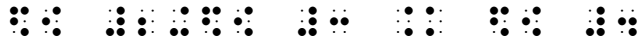
B. $5_8 + \square_8 = 22_8$

 C. $5\frac{18}{20} = \square\frac{1}{2}$

D. Name two different operation signs that make this a true statement: $1\square 1 = 1$.

 E. $\frac{15}{20} = \frac{3}{\square}$

➤ $\sphericalangle 2 + \sphericalangle 3 = \sphericalangle 4$



There is no space before or after the operation sign (plus sign).

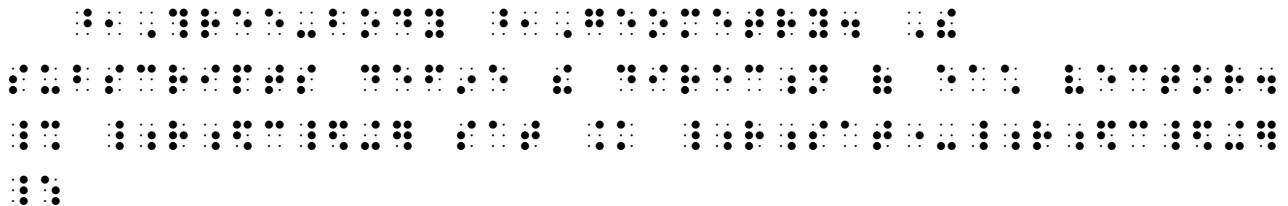
11.32 A Shape Within a Superscript or a Subscript

An identified sign of shape is read as a unit, therefore when one appears in a superscript or a subscript the effect of the level indicator extends through the space following the sign of shape. That is, the space preserves the superscript or subscript level where the sign of shape appears.

➤ $A_{\triangle ABC}$

Example 11-18

Three-body Geometry. The subscripts define the direction of each vector. $\mathbf{r}_{\oplus \text{sat}} = \mathbf{r}_{\text{sat}} - \mathbf{r}_{\oplus}$



" $\oplus \text{sat}$ " is in the subscript position. Only one subscript indicator is needed because the level continues through the space following the shape. (Reminder: Boldface type used to identify letters as vectors must be preserved.)

11.33 A Shape Which Carries a Superscript or a Subscript

When a sign of shape carries a superscript or subscript, the level indicator is unspaced from the shape.

➤ \triangle^2

➤ \square_2

The rule for nonuse of the subscript level indicator does not apply to a shape represented by a letter. A subscript indicator is required.

➤ \triangle_2

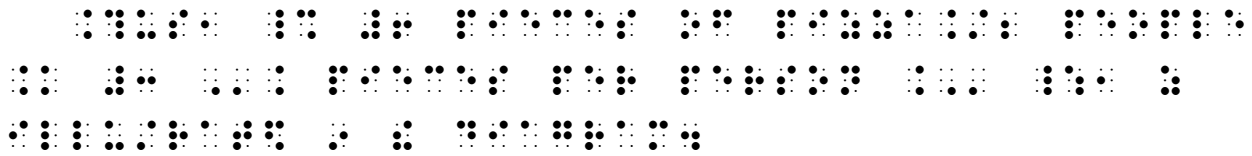
With an identified sign of shape, the space required between the sign of shape and its identifier follows the superscript or subscript. When the identified shape is on the baseline of writing, the space following the superscript or subscript terminates the effect of the level indicator and reinstates the baseline level.

PRACTICE 11F

1. \square ABCD is a square. \parallel EFGH is a parallelogram. \diamond JKLM is a rhombus.
 2. Compare triangles: $\triangle ADM \cong \triangle A'D'M'$. $\triangle BEP \cong \triangle CFP$.
 3. Should $\triangle ABV$ be included in the set $\{\triangle 3, \angle GHA, \diamond 2\}$?
 4. $\angle 3 + \angle 4 = 90^\circ$
 5. $m\angle p + m\angle q = 180^\circ$
 6. $m^\circ\angle\theta = -45$
 7. $A_{\triangle DEF} = \frac{1}{2}bh$
 8. $\angle ECB = \frac{1}{2}\angle ABC$
-

Example 11-33

Thus, 6 pieces of pizza \div 2 people = 3 *pieces per person*, as illustrated in the diagram.



The italic typeface is retained for the phrase "pieces per person" because it illustrates a teaching point.

Mathematical Statements

[NC 7.4.4 and 26.7]

11.38 Axioms, Corollaries, Definitions, Laws, Lemmas, Propositions, Theorems

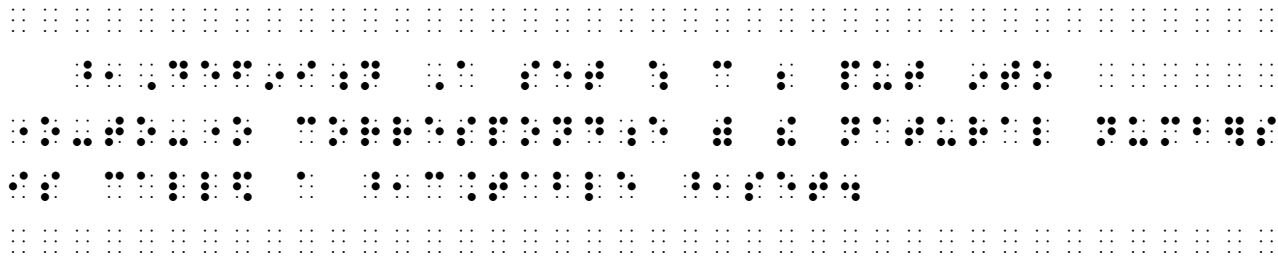
A mathematical statement is often printed in a distinctive style to catch the reader's attention. It also may be set off from the main text by different margins or some other means of distinction. The statement is usually introduced by a word such as Axiom, Corollary, Definition, Law, Lemma, Proposition, or Theorem. We will refer to this word as a "label" in this section.

Follow these directives in the braille transcription.

- a. To draw attention to the mathematical statement in braille, leave one blank line before the label and one blank line after the statement.
- b. The label can be formatted as a paragraph heading or as a cell-5 or cell-7 heading, at the transcriber's discretion. Consistent treatment is important. Follow print for the capitalization style of the label. Typeform is disregarded in a cell-5 or cell-7 heading. Typeform is retained in a paragraph heading unless it is printed as fully capitalized as well as a variant typeform, in which case capitalization is retained but typeform is disregarded.
- c. Continue with the text, using normal (3-1) paragraph style. When all statements in the text are printed in the same typeform, the uniform typeform may be disregarded in the transcription.
- d. If, in the body of a mathematical statement, a word or phrase is singled out for special attention by using a nonregular typeface, the change in typeface is retained in braille.

Example 11-34

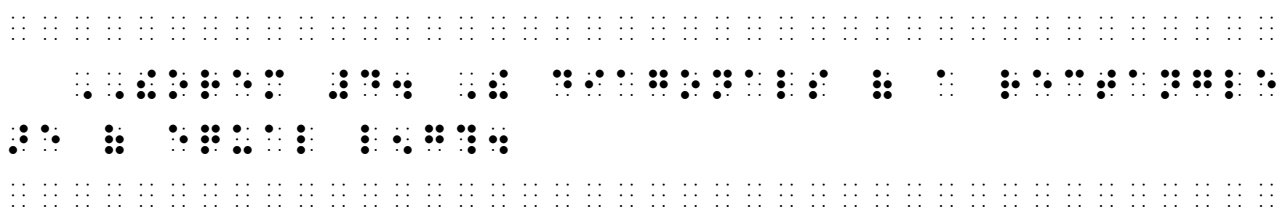
Definition *A set which can be put into one-to-one correspondence with the natural numbers is called a **countable set**.*



A blank line precedes and follows the mathematical statement. In print, "Definition" is a marginal heading and is in boldface type. The statement is printed in italics and is set off from the main body text with indented margins. In braille, the label is transcribed as a paragraph heading, but could just as well have been formatted as a cell-5 or cell-7 heading. As a paragraph heading, typeface is retained. We will assume that all Definition statements in this book are printed in italics, therefore the uniform typeface of the statement is disregarded. Boldface is retained for the bold words within the statement.

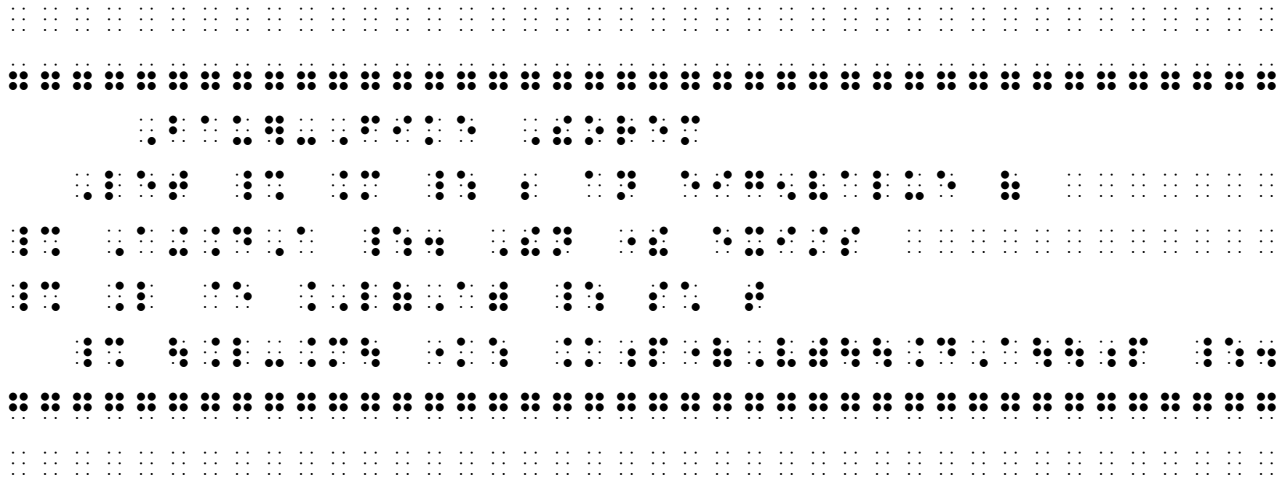
Example 11-35

THEOREM 4. *The diagonals of a rectangle are of equal length.*



The label is printed in bold type. Typeform of the paragraph heading is disregarded because it is fully capitalized. The statement is printed in italics. We will assume that all Theorem statements in this book are printed in italics, therefore the uniform typeface of the statement is disregarded.

<p>Bauer-Fike Theorem</p> <p>Let μ be an eigenvalue of $A + \delta A$. Then there exists $\lambda \in \Lambda(A)$ such that</p> $ \lambda - \mu \leq \kappa_p(V) \ \delta A\ _p.$
--



The mathematical statement is boxed. Box lines are retained for distinction. The label, printed in boldface, is formatted as a cell-5 heading. Typeform is disregarded in a cell-5 heading, (The label could just as well have been formatted as a paragraph heading, in which case the bold type would be retained.) The definition is printed in normal typeface, with the exception of the letters in the mathematical expressions which are in italics. In braille, variables are transcribed in normal type unless the typeface has mathematical significance. You may wish to review any unfamiliar symbols in this example. Greek letters mu, delta, lambda (both capital and lowercase), and kappa, as well as the comparison sign for "membership".

Instructions: Format each statement's label as a paragraph heading. Assume all Theorem statements in this book are printed in italics. Retain the box around the Definition.

PRACTICE 11G

Write your answer in the box. Pay close attention to the italicized units.

$$52 \text{ churros} \div 26 \text{ children} = \square \text{ churros per child}$$

Pythagorean Theorem *In a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.*

$$c^2 = a^2 + b^2$$

<p>DEFINITION A positive number expressed in the form $a \times 10^n$, where $1 \leq a < 10$ and n is an integer is said to be written in scientific notation.</p>
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<p><i>For further practice, see Appendix A—Reading Practice.</i></p>
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EXERCISE 11

Prepare Exercise 11 for your grader.

