

UEB TECHNICAL

–quick summary to accompany– Spatial Problems, Rules and Advice

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Outline of Topics

- Bullets from GTM 4.1
- General Advice
 - Numeric Passage
 - Item Identifiers
 - Omission, Single
 - Omissions, Multiple
- Blank for Missing Answer
- Addition
 - Single-digit Problems
 - Tiny Numbers
- Horizontal Line and Operation Symbols
- Division
 - \div for Division Symbol
 - Numeric Passage and Spatial Division
 - Operation Symbols Within Division
- Subtraction
 - Cancellation
 - Tiny Numbers
- Multiplication
 - Tiny Numbers
 - Separation Line Length Within Multiplication
- Identifier Placement
- Square Roots
- Summaries

Summaries

Summary of Advice

- Use a numeric passage for a series of spatial problems
- Repeat individual numeric indicators for each question number, even within a numeric passage
- For shapes that indicate omission: for one single shape, follow print; for multiple shapes, use visible spaces
- Use consistent spacing after identifiers and between problems
- In single-digit addition problems, let the column above dot 5 be empty
- Place “tiny numbers” in a place appropriate to the calculation they indicate
- Place operation symbols consistently
- For division, use a numeric passage, and position operation symbols relative to the calculation to which they belong
- For cancellation in subtraction problems use $\dot{\cdot}\dot{\cdot}$, and align digits as in print
- It is okay for horizontal lines in a multiplication problem to differ in length
- Place identifiers on the braille line where calculation begins (augend, minuend, multiplicand, dividend)
- For a spatially arranged square root, follow print

Summary of Rules

- Above and below each spatial calculation the braille line should be either blank or contain only $\dot{\cdot}\dot{\cdot}$ or $\dot{\cdot}\dot{\cdot}\dot{\cdot}$
- Columns to be added should only contain numerals or omission symbols
- An individual numeric indicator can be followed by a space and still turn on numeric mode
- For sum lines and other horizontal lines, use horizontal line mode $\dot{\cdot}\dot{\cdot}\dot{\cdot}$
- Horizontal lines (e.g., sum lines) are as wide as the longest item to which they apply
- For division, braille a spaced vertical line segment for a curved or straight printed line