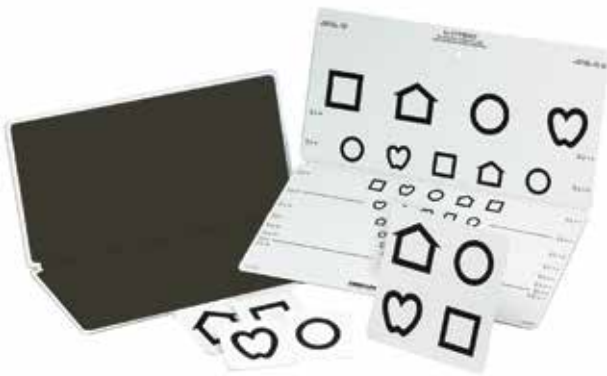


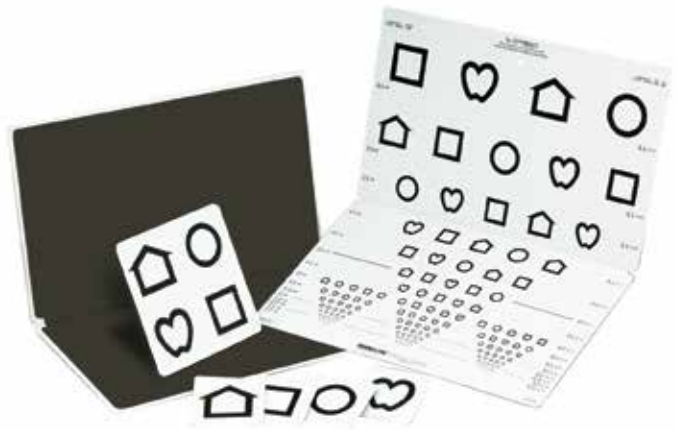


10-Line & 15-Line Fold Distance Charts

Part Number: 250250 & 250150



250250 - Distance visual acuity chart for screening children beginning around age 3 years.



250150 - Distance visual acuity chart for assessing children beginning around age 4 years and older.

Description

These non-translucent LEA Symbols charts are the original distance charts for young preschool children (#250250) and kindergarten children (#250150) designed in 1976 by Lea Hyvärinen, MD, PhD, pediatric ophthalmologist, and printed first in Finland and since the early 1990s in the USA. The charts are used in vision screening and in assessment of visual functioning in numerous countries. For example, chart # 250250 (10-line) would be for vision screening beginning at age 3 years and chart # 250150 (15-line) would be used for assessment around age 4 years and older.

Black backgrounds on the reverse side of each chart can be used for the Panel 16-Quantitative Color vision test (#260100, #260160, #260200, #260260, or #260300) or for the LEA Rectangles Game (#254600).

Instructions

- Use with preschoolers or before children know their letters.
- Measure 10-foot screening or assessment distance between chart and child's eyes.
- Establish a method of communication with the child, such as naming the optotypes or pointing to the optotypes (matching) using the response panel included with the charts.
 - LEA Symbols are culturally neutral in that children call LEA Symbols whatever name they choose (i.e., circle may be a hula-hoop, etc.).
 - Other ways to match include:
 - Using the LEA 3-D Puzzle (#251600).
 - Placing the individual cards included with each chart on the floor in front of child and asking child to step on the card that matches the optotype on the chart.

- With both eyes uncovered, ask child to identify each of the 4 optotypes on the top line to ensure child understands the screening task.
- Cover left eye with occluder (never a hand; examples of appropriate occluders are on the reverse side of this paper).
- Starting at the top line, ask child to identify the first symbol on each line until child hesitates or misidentifies a symbol.
 - Do not point to the symbol to be read; pointing makes fixation easier to identify, especially with children who have amblyopia (lazy eye).
 - If you need to direct child's attention to a symbol, briefly point to the symbol and quickly remove the pointer (your finger, etc.)
- When child hesitates or misidentifies a symbol, return to the line above the missed symbol and ask child to identify each symbol on the line.
- Continue asking child to identify each symbol on each lower line until child misses 3 on one line (continue asking child to identify the full line even when 3 or more are missed).
 - If child skips a symbol, ask child to try again while briefly pointing and removing pointer and saying, "You jumped over this picture, what is it?"
 - A child with an amblyopic eye or irregular saccades may typically skip symbols within a line of symbols. If skipping symbols occurs, report whether the skipping occurred in only one eye or both eyes.
- Repeat with right eye covered.
 - For chart 250250, you can begin on the right side of the lines and move to the left.
 - For chart 250150, you can use the large middle chart and begin on the right side of the lines and move to the left OR you can use the smaller charts at the bottom, one for each eye.



10-Line & 15-Line Fold Distance Charts

Part Number: 250250 & 250150

- **Visual acuity score** = The last line on which the child correctly identified 3 of 5 symbols.
 - When testing at 10 feet (3 meters), the visual acuity value is on the right side of the chart (20/xx). The 10/xx values express the testing distance, but you will report the 20/xx values.
- **Pass** = For children aged 3 or 4 years = Correctly identifying 3 of 5 symbols on the 20/40 line with each eye.
- **Pass** = For children aged 5 years and older = Correctly identifying 3 of 5 symbols on the 20/32 line with each eye.
- **Fail and rescreen or refer** = For children aged 3 or 4 years = Missing more than 2 symbols on the 20/40 line, or any line above the 20/40 line, with either eye.
- **Fail and rescreen or refer** = For children aged 5 years and older = Missing more than 2 symbols on the 20/32 line, or any line above the 20/32 line, with either eye.

Testing at Different Distances

If you need to use the charts at a distance other than the usual 10 feet (3 meters), measure and record the viewing distance and the symbol size (M value) or the visual acuity value printed at the threshold line (where child last correctly identified 3 of 5 symbols).

To determine the visual acuity, use one of the following two formulas:

$$VA = \frac{\text{Viewing Distance Used (meters)}}{M\text{-value}}$$

OR

$$VA = \frac{\text{Viewing Distance Used (meters or feet)}}{3 \text{ meters (10 feet)}} \times \text{VA value for 3 meters (10 feet)}$$

When the distance is one half (or one third) of the standard distance, the visual acuity is also one half (or one third) of the value printed next to the threshold line.

You may also be interested in the following:



461011
Frosted Parrot Occluding Glasses



251600
LEA 3-D Puzzle



548500
Sunflower Occluding Glasses
for smaller faces