



Texas Early Mathematics Inventories

Overall

Kindergarten Teacher's Manual Addendum

Mathematics Problem Solving
for

v. 3.0—FORM A

Specific Administration Instructions

Mathematics Problem Solving (Form A)

Three test items appear on a page. Pictures at the top of each page help students ensure that they are on the right page. Each row of items is also accompanied by a picture. On the left page, a picture of a lollipop marks the first row, a lion designates the second row, and a star appears on the third row. On the right page, a picture of a shoe marks the first row, a hat designates the second row, and a cake appears on the third row. The stimulus box—next to the pictures of the lollipop, lion, and so forth—is designated by a bold outline. It may contain an ear (directing children to listen carefully) or a stimulus picture.

Students should be given about 10 seconds to complete an item after instructions are given. For items marked with an asterisk (e.g., *15.), students will require more time (about 25 to 30 seconds).

The instructions should be read verbatim. Words appearing in *italics* are not read aloud, words appearing in regular type are read aloud to the students, and words appearing in **boldface type** are repeated aloud.

Pass out the student booklets, scratch paper, and markers (if used). Instruct the students to write their names as neatly as they can. Examiners should check the booklets after they have been collected.

Direct students to place their marker under each row as instructions are read. If you elect *not* to use markers, say, “Place your finger on the row ...” instead of “Place your marker under the row ...”

Practice

Page: 3 Cow



P-1 (first practice item)



- *Show the Mathematics Problem Solving overhead transparency.*
- Today we are going to work with math. Listen to me carefully and do your best. I do not expect you to be able to know all of the answers—just do the best you can.
- As you work, you may want to use the sheet of paper to make marks to find the answer.
- Turn to the page where you see a cow at the top.
- Look at the boxes on the page.
- Put your finger on the lollipop.
- The boxes you see are in a row. Place your marker under the row with the lollipop.
- In the first box you see an ear, which means that you have to listen very carefully. Find the box with the two dots in it.
- Draw a line that connects the dots—a line from one dot to the other dot.
- *Mark the answer on the overhead transparency.*
- *Pause and check students' work.*
- Good. This is how you mark your answers.

P-2 (second practice item)



- Now move your marker under the row where you see a lion.
- Look at the shape in the first box in the row. Now look at the other boxes.
- **Mark the box that has the exact same thing you see in the first box.** (*Reminder: Bolded text means the sentence is to be repeated.*)
- *Check to see that the students marked an answer; then mark the answer on the overhead transparency.*

P-3 (third practice item)



- Now move your marker below the row where you see a star.
- In the first box, you see an ear. This means that you have to listen very carefully.
- **Mark the box that shows a number.**
- *Check to see that the students marked an answer; then mark the answer on the overhead transparency.*
- As we continue, remember to mark only one answer for each item. And you mark your answer by connecting two dots inside a box.

Test Items

Page: 4 Fish



- Turn to the page where you see a fish at the top.
- Move your marker under the row with the lollipop.
- Look at the first box. See the number of marbles in the box.
- Now look at the other boxes. **Mark the box that shows the same number of marbles as in the first box.**



- Move your marker under the row with the lion.
- Look at the apple in the first box and listen carefully to this story. Michael had an apple. He wanted to give half of the apple to his brother, so he cut his apple into halves. Now look at the other boxes. **Mark the box that shows the apple cut into halves.**



- Move your marker under the row with the star.
- Look at the ear in the first box. This means that you need to listen carefully.
- Now look at the lines in the other boxes. **Mark the box that shows lines that are different.**

Page: 5 Pony



- Look at the page where you see a pony at the top.
- Move your marker under the row with the shoe.
- Look at the calendar in the first box. A date is missing from the calendar.
- Now look at the other boxes. **Mark the box that shows what date is missing from the calendar.**



- Move your marker under the row with the hat.
- Look at the ear in the first box. This means that you need to listen carefully.
- Now look at the other boxes. **Mark the box that shows a rectangle.**



- Move your marker under the row with the cake.
 - Look at the pitcher of chocolate milk in the first box.
 - Now look at the glasses in the other boxes. **Mark the box that shows the glass before any milk was poured from the pitcher.**
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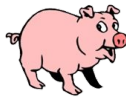
- Turn to the page where you see a bird at the top.
- Move your marker under the row with the lollipop.
- Look at the ear in the first box. This means that you need to listen carefully to this story.
- Timothy's uncle, Joe, gave Timothy a present for his birthday. Timothy put his present below the table in his living room.
- Look at the pictures in the other boxes. **Mark the box that shows that the present is below the table.**



- Move your marker under the row with the lion.
- Look at the pattern in the first box.
- Now look at the other boxes. **Mark the box that shows what should go next in the sequence.**



- Move your marker under the row with the star.
- Look at the ear in the first box. This means that you need to listen carefully.
- Look at the pictures in the other boxes. **Mark the box that shows the ball is inside the basket.**



- Look at the page where you see a pig at the top.
- Move your marker under the row with the shoe.
- Look at the ear in the first box. This means that you need to listen carefully.
- Look in each of the other boxes and you will see a scene depicting a time of year. **Mark the box that shows the scene with the hottest temperature.**



- Move your marker under the row with the hat.
- Look at the basket of fruit in the first box. Mrs. Yang's class voted on their favorite fruit and made a graph showing how the class voted. **Mark the box with the graph that shows the most bananas.**

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- Move your marker under the row with the cake.
 - Count the number of shapes in the first box.
 - Now look at the other boxes. **Mark the box that shows the number of shapes you counted in the first box.**
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- Turn to the page where you see a train engine at the top.
- Move your marker under the row with the lollipop.
- Look at the ear in the first box. This means that you need to listen carefully.
- Look at the other boxes. **Mark the box that shows the second circle filled in.**



- Move your marker under the row with the lion.
- Look at the ear in the first box. This means that you need to listen carefully.
- Now look at the other boxes. **Mark the box that shows the ball that is smaller than the others.**



- Move your marker under the row with the star.
- Look at the ear in the first box. This means that you need to listen carefully.
- Look in each of the other boxes. Each box shows a tree house being built. **Mark the box that shows what happened first.**



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- Look at the page where you see a bug at the top.
- Move your marker under the row with the shoe.
- Look at the designs and the sheets of paper in the first box. Tommy wants to sort his designs by shape and put the designs on his sheets.
- Now look at the other boxes. **Mark the box that shows his designs sorted by shape.**



- Move your marker under the row with the hat.
- Look at the ear in the first box. This means that you need to listen carefully.
- Look at the rows of squares in the next boxes. **Mark the box that shows the first square filled in.**

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- Move your marker under the row with the cake.
 - Look at the shapes in the first box.
 - Now look at the other boxes. **Mark the box with the ten frame and number that matches the number of shapes in the first box.**
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- Turn to the page where you see a house at the top.
- Move your marker under the row with the lollipop.
- Look at the dogs in the first box.
- Now look at the leashes in the other boxes. **Mark the box that shows fewer leashes than dogs you see in the first box.**



- Move your marker under the row with the lion.
- Look at the ear in the first box. This means that you need to listen carefully.
- Now look at each of the other boxes, and you will see a calendar marking out a day, a week, and a month. **Mark the box with the calendar that shows the longest amount of time marked out: a day, a week, or a month.**

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- Move your marker under the row with the star.
- Look at the pattern in the first box.
- Now look at the other boxes. **Mark the box that shows the same pattern that is in the first box.**



- Look at the page where you see a policeman at the top.
- Move your marker under the row with the shoe.
- Look at the ear in the first box. This means that you need to listen carefully.
- Now look at the other boxes. **If I am counting “15, 16, 17,” mark the box that shows what I would say next.**

After item 22 has been completed, collect the booklets and all materials. Day 2 kindergarten testing is complete.