

This document contains the answer keys and rubrics for the LEAP Connect Grade 4 Mathematics Practice Test. Information related to item complexity is indicated in the column labeled “Tier” (i.e., 1-4) in the Grade 4 Mathematics Practice Test – Sessions 1-2 tables. Additional information about the item complexity is located in the [LEAP Connect Assessment Guides for Grades 3-5](#).

Item Type Key

MC – multiple choice

CR – constructed response

Grade 4 Mathematics Practice Test – Session 1

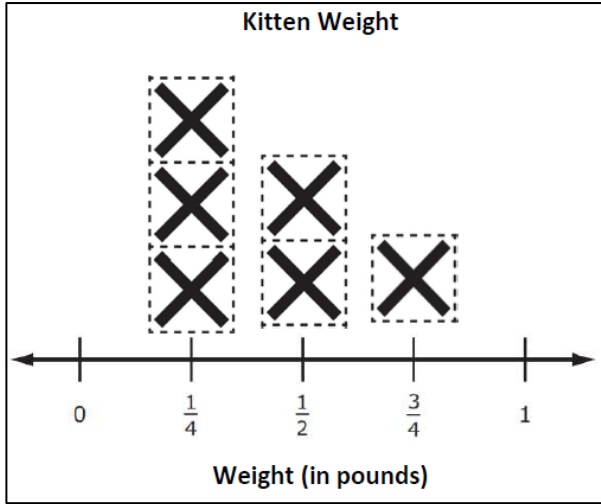
Session 1					
Item #	Item Type	Value (points)	Answer	Tier	LC Alignment
1	MC	1	A	1	LC.4.G.A.2a
2	MC	1	B	1	LC.4.OA.A.3a
3	MC	1	A	1	LC.4.NF.A.1
4	MC	1	B	1	LC.4.MD.B.4a
5	MC	1	C	3	LC.4.OA.A.3a
6	MC	1	B	2	LC.4.NF.A.2b
7	MC	1	A	3	LC.4.OA.A.2a
8	MC	1	C	2	LC.4.MD.A.3
9	MC	1	B	2	LC.4.OA.A.2a
10	MC	1	C	3	LC.4.NF.A.2b
11	MC	1	B	4	LC.4.OA.A.2b
12	MC	1	A	2	LC.4.NF.A.2a
13	MC	1	C	3	LC.4.MD.A.3
14	MC	1	A	2	LC.4.NBT.A.3
15	MC	1	A	2	LC.4.OA.A.2b
16	CR	1	Rubric	3	LC.4.MD.B.4a
17	MC	1	C	3	LC.4.NBT.A.3
18	CR	1	Rubric	3	LC.4.G.A.2a
19	MC	1	A	1	LC.4.NF.A.2b
20	MC	1	B	1	LC.4.NBT.A.3

Grade 4 Mathematics Practice Test – Session 2

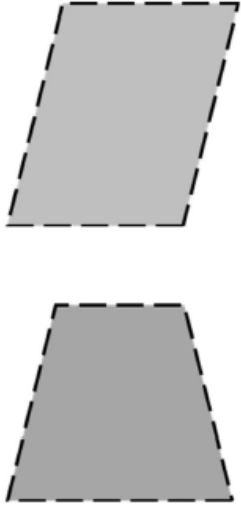
Session 2					
Item #	Item Type	Value (points)	Answer	Tier	LC Alignment
21	MC	1	A	1	LC.4.NF.A.2a
22	MC	1	A	2	LC.4.OA.A.2a
23	CR	1	Rubric	2	LC.4.MD.B.4a
24	MC	1	B	3	LC.4.NF.A.1
25	CR	1	Rubric	4	LC.4.G.A.2a

26	MC	1	C	2	LC.4.MD.A.3
27	MC	1	B	3	LC.4.OA.A.2b
28	MC	1	B	3	LC.4.OA.A.2a
29	MC	1	A	4	LC.4.NBT.A.3
30	MC	1	C	2	LC.4.NF.A.1
31	MC	1	C	3	LC.4.MD.A.3
32	MC	1	A	2	LC.4.OA.A.3a
33	MC	1	C	3	LC.4.NF.A.2a
34	CR	1	Rubric	2	LC.4.G.A.2a

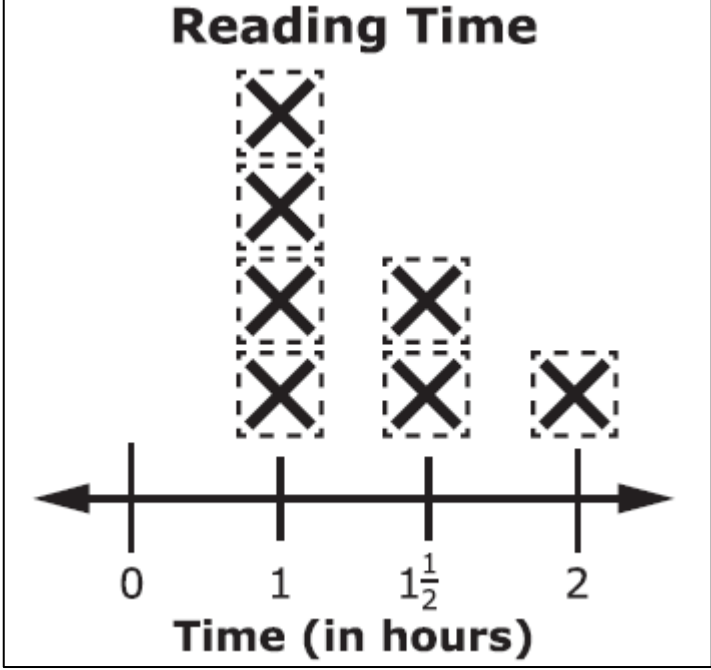
Grade 4 Mathematics Constructed Response Rubrics

Item 16	
Score	Description
1	<p>Student correctly places exactly 1 X tile above the $\frac{3}{4}$ pound on the line plot.</p> <p>Sample Student Response:</p> 
0	Student does not correctly place exactly 1 X tile above $\frac{3}{4}$ pound on the line plot.

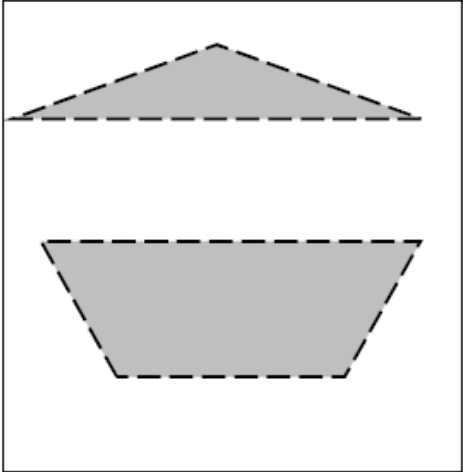
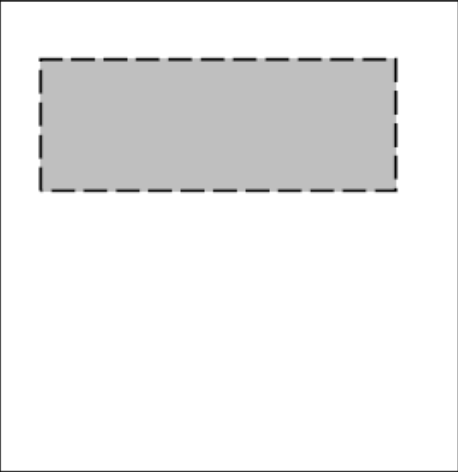
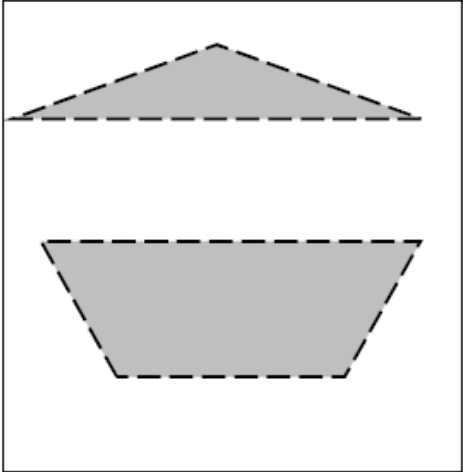
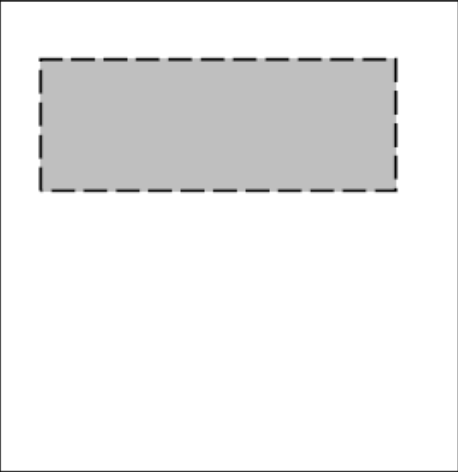
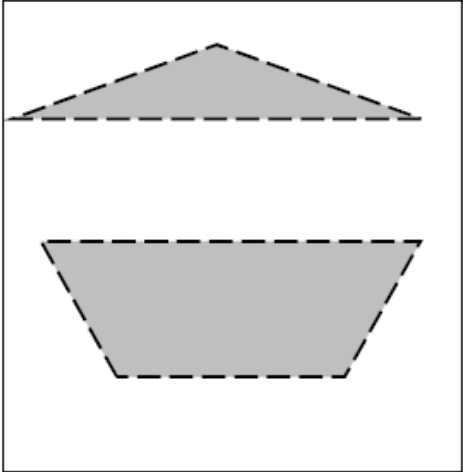
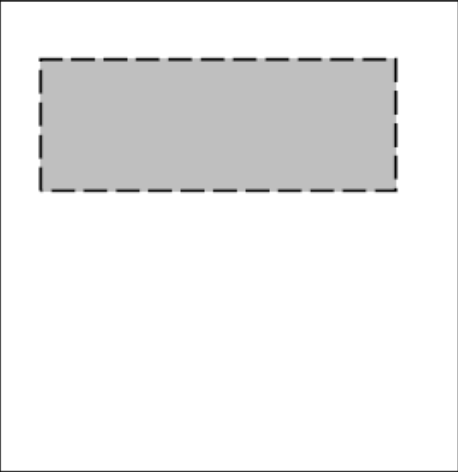
Item 18

Score	Description
1	<p>Student correctly places exactly 2 shapes with 4 angles in the table.</p> <p>Sample Student Response:</p> <div data-bbox="380 380 766 1010" style="border: 1px solid black; padding: 10px;"><p style="text-align: center;">4 Angles</p><p>The image shows two quadrilaterals. The top one is a parallelogram with dashed lines. The bottom one is a trapezoid with dashed lines.</p></div>
0	Student does not correctly place exactly 2 shapes with 4 angles in the table.

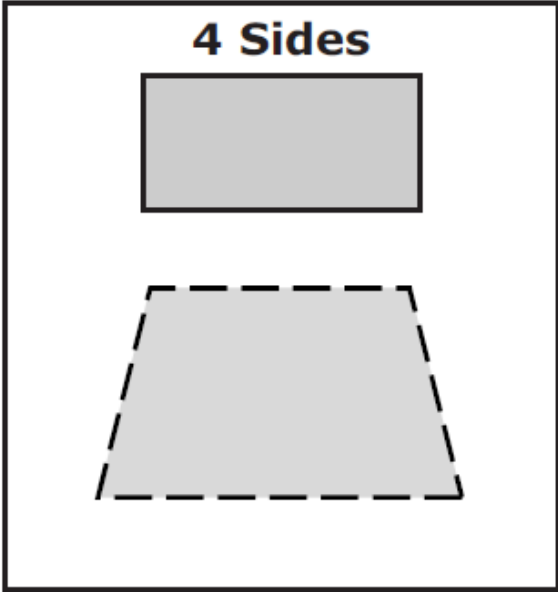
Item 23

Score	Description
1	<p>Student correctly places 1 X tile above 2 hours on the line plot.</p> <p>Sample Student Response:</p>  <p>The figure is a line plot titled "Reading Time". The horizontal axis is labeled "Time (in hours)" and has tick marks at 0, 1, $1\frac{1}{2}$, and 2. Above the tick mark for 1, there are four X tiles. Above the tick mark for $1\frac{1}{2}$, there are two X tiles. Above the tick mark for 2, there is one X tile.</p>
0	Student does not correctly place 1 X tile above 2 hours on the line plot.

Item 25

Score	Description				
<p>1</p>	<p>Student correctly sorts 3 out of 3 shapes.</p> <p>Sample Student Response:</p> <table border="1" data-bbox="381 380 1295 926"> <thead> <tr> <th data-bbox="381 380 841 457">Shapes with At Least One Obtuse Angle</th> <th data-bbox="841 380 1295 457">Shapes with No Obtuse Angles</th> </tr> </thead> <tbody> <tr> <td data-bbox="381 457 841 926">  <p>The left column contains two gray shapes with dashed outlines. The top shape is a triangle with one obtuse angle at the top. The bottom shape is a trapezoid with two obtuse angles at the bottom corners.</p> </td> <td data-bbox="841 457 1295 926">  <p>The right column contains one gray shape with a dashed outline, which is a rectangle. All four angles are right angles.</p> </td> </tr> </tbody> </table>	Shapes with At Least One Obtuse Angle	Shapes with No Obtuse Angles	 <p>The left column contains two gray shapes with dashed outlines. The top shape is a triangle with one obtuse angle at the top. The bottom shape is a trapezoid with two obtuse angles at the bottom corners.</p>	 <p>The right column contains one gray shape with a dashed outline, which is a rectangle. All four angles are right angles.</p>
Shapes with At Least One Obtuse Angle	Shapes with No Obtuse Angles				
 <p>The left column contains two gray shapes with dashed outlines. The top shape is a triangle with one obtuse angle at the top. The bottom shape is a trapezoid with two obtuse angles at the bottom corners.</p>	 <p>The right column contains one gray shape with a dashed outline, which is a rectangle. All four angles are right angles.</p>				
<p>0</p>	<p>Student does not correctly sort 3 out of 3 shapes.</p>				

Item 34

Score	Description
1	<p>Student correctly places only the shape with 4 sides in the chart.</p> <p>Sample Student Response:</p> <div data-bbox="378 380 932 968" style="border: 1px solid black; padding: 10px; text-align: center;"><p>4 Sides</p></div>
0	<p>Student does not place the shape with 4 sides in the chart. OR Student places both shapes in the chart.</p>