Mathematics Grade 5
Classroom Assessments Based on Standards (MMP 7/06)

MPS Learning Target: Measurement
○ Compare measurement attributes and elapsed time, explain estimates, selection of unit, and conversions of measures, and determine measurements (e.g., area, size of angles, elapsed time) with tools and scales to specified degrees of accuracy.

1.) Which of the instruments listed below best measures each of the following?
   a. thermometer
   b. clock
   c. ruler
   d. scale

<table>
<thead>
<tr>
<th>Length</th>
<th>Temperature</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ A</td>
<td>○ A</td>
<td>○ A</td>
</tr>
<tr>
<td>○ B</td>
<td>○ B</td>
<td>○ B</td>
</tr>
<tr>
<td>○ C</td>
<td>○ C</td>
<td>○ C</td>
</tr>
<tr>
<td>○ D</td>
<td>○ D</td>
<td>○ D</td>
</tr>
</tbody>
</table>

2.) What is the weight shown on the scale?
   ○ 6 lbs.
   ○ 7 lbs.
   ○ 51 lbs.
   ○ 60 lbs.
3.) Of the following, which is the best unit to use when measuring the growth of a bean plant every other day during a 2-week period?

- Centimeter
- Meter
- Kilometer
- Foot
- Yard

4a.) Pandora took the blue train from Summit to Center Station. It takes her 15 minutes to drive from her house to Summit Station. If Pandora doesn’t have to wait for the train, how long does it take her to get from her house to Center Station?

<table>
<thead>
<tr>
<th>Train</th>
<th>Blue</th>
<th>Red</th>
<th>Green</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summit</td>
<td>6:38</td>
<td>7:05</td>
<td>7:35</td>
</tr>
<tr>
<td>Smoke Rise</td>
<td>7:12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melrose</td>
<td>7:22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newburgh</td>
<td>7:31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steen’s Mountain</td>
<td>7:00</td>
<td>7:39</td>
<td>7:58</td>
</tr>
<tr>
<td>Oakwood</td>
<td>7:50</td>
<td>8:09</td>
<td></td>
</tr>
<tr>
<td>Great Hills</td>
<td>8:01</td>
<td>8:21</td>
<td></td>
</tr>
<tr>
<td>Fort Tyron</td>
<td>8:13</td>
<td>8:34</td>
<td></td>
</tr>
<tr>
<td>Ithaca</td>
<td>7:26</td>
<td>8:22</td>
<td>8:43</td>
</tr>
<tr>
<td>Center Station</td>
<td>7:51</td>
<td>8:50</td>
<td>9:09</td>
</tr>
</tbody>
</table>

Show your work and explain how you solved the problem.

Answer ___________
4b.) How long does it take the red train to get from Summit to Steen’s Mountain?

Show your work.

Answer ____________

5a.) The scale shown below measures weight in kilograms. What is the total weight of the oranges in the picture?

○ 2 ½ kg.
○ 3 ½ kg.
○ 5 kg.
○ 10 kg.
5b.) If Mia added three more oranges of approximately the same size to the scale above, what is the estimated total weight of all the oranges?

Show how you solved this problem using pictures, numbers, or words.

Answer ________

6.) To prepare for the school picnic, students made 25 gallons of punch. The punch will be served in 8 ounce cups. How many cups will they need if all 25 gallons are served?

Show your work.

Answer ______________
7a.) This is Angelo’s rose garden.

9 feet

15 feet

How many feet of fencing will he need to enclose it? ____________

Show your thinking.

Answer ____________

7b.) When Angelo went to buy the fencing, he found out it was only sold by the yard. How many yards of fencing should he buy?

Show your thinking.

Answer ____________
7c.) Calculate the total area of Angelo’s rose garden.

Show your thinking.

Answer __________

7d.) If he wants each of his rose bushes to have 4 square feet of space, how many rose bushes can he plant?
8a.) On the grid below, draw a right triangle.

8b.) Calculate the area of your triangle.

Show your work.

Area = ____________

= 1 square unit
9.) Measure the angles with your protractor.

   Angle A _______________

   Angle B _______________

10a.) Joey and Sara both have newspaper routes. Joey starts his route at 6 am. He can deliver 8 newspapers in 5 min. He has 32 houses on his paper route. What time will he finish his paper route? _________

   Show your work.

   Answer  ____________

10b.) Sara starts at 5:30am. She can deliver 12 newspapers in 8 min. She has 48 houses on her paper route. What time will she finish her route?

   Show your work.

   Answer  ____________
10c.) Sara claims that it takes her less time to finish her route. Is she right? ______
Explain your answer.

11.)

11a.) Ramon walks from the picnic area to the lake. About how many yards did he walk?

11b.) Beth went swimming in the lake and then wanted to go on a walk through the forest. About how many yards did she have to walk from the lake to the forest?