MPS Learning Target: Measurement

- Use appropriate units to compare and estimate measurable attributes of objects, including area and perimeter, and make simple unit conversions within a measurement system.
- Read and interpret customary and metric measuring instruments and determine time to the nearest minute and elapsed time in real-world situations.

1.) Which of these instruments best measures each of the following? Write the letter of the best instrument on the line.

A. Length  B. Temperature  C. Weight  D. Time

Length _____ Temperature _____ Weight _____ Time _____

2.) Measure the length of each picture below to the nearest centimeter.

A. _____ centimeters  B. _____ centimeters  C. _____ centimeters
3.) Use estimation to answer the following questions.

A.) About how many pages are in a notebook?
   ○ 10 pages
   ○ 20 pages
   ○ 100 pages
   ○ 1,000 pages

B.) About how long would it take you to walk 12 blocks?
   ○ 1 minute
   ○ 10 minutes
   ○ 1 hour
   ○ 10 hours

C.) About how heavy is a baby?
   ○ 10 pounds
   ○ 50 pounds
   ○ 75 pounds
   ○ 100 pounds

4.) Write the unit of measurement that is best for measuring each item below.

<table>
<thead>
<tr>
<th>centimeters</th>
<th>grams</th>
<th>pounds</th>
<th>miles</th>
<th>liters</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.) lemonade for a party</td>
<td>___________</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.) distance to Chicago</td>
<td>___________</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.) weight of an adult</td>
<td>___________</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d.) width of a library book</td>
<td>___________</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e.) mass of 10 paper clips</td>
<td>___________</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5.) Maria is measuring her crayon.

![Crayon Measurement]

Maria said the crayon is about 4 1/2 inches long. Is she correct?

Answer ________________________________

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

6a.) On the grid below, draw a rectangle with an **area** of 12 square units.

![Rectangular Grid]

6b.) Find the **perimeter** of your rectangle. _____________________

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7.) Jamal was serving punch at his birthday party. If he was serving 10 kids, which container would he use?

Answer ______________________

Explain your thinking.

________________________________________________________________
________________________________________________________________
________________________________________________________________

8.) Destiny wanted to fill the bath tub but couldn’t get the water to work. She needed to carry the water from the kitchen. How much water will she have to bring to fill the bathtub?

   o  6 cups
   o  6 pints
   o  30 gallons
   o  2 quarts
9.) The clocks below show when Miguel started and finished his homework.

9a.) Show the time Miguel started. Write the time Miguel finished.

6:30

9b.) How long did he work on his homework? ___________

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

10.) Use words from the box to fill in the blanks.

<table>
<thead>
<tr>
<th>big steps</th>
<th>desk</th>
<th>driveway</th>
<th>toothpicks</th>
</tr>
</thead>
</table>

a.) You can estimate and measure the distance across a ____________ with paper clips.

b.) You can estimate and measure the distance around a ____________ with a jump rope.

c.) You can estimate and measure the distance around a schoolyard with ____________.
11.) Lamar wants to put a fence around his backyard.

11a) First figure out the missing measurements, then calculate how much fencing he will need?

Answer_________________

11b.) Fencing is sold by the yard. How many yards does Lamar need to buy?

_________________________________________
12.) Directions: Look at each measurement. Then answer the following questions.

<table>
<thead>
<tr>
<th>Xavier jumped 2 feet</th>
<th>Leslie jumped 1 foot 5 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tom jumped 1 foot 11 inches</td>
<td>Alliyah jumped 29 inches</td>
</tr>
</tbody>
</table>

Who had the longest jump? How do you know?
_____________________________________________________________
_____________________________________________________________

Who had the shortest jump? How do you know?
_____________________________________________________________
_____________________________________________________________

13.) What is the temperature on each thermometer? Put the degrees on the line.

<table>
<thead>
<tr>
<th>F°</th>
</tr>
</thead>
<tbody>
<tr>
<td>60°</td>
</tr>
<tr>
<td>50°</td>
</tr>
<tr>
<td>40°</td>
</tr>
<tr>
<td>30°</td>
</tr>
</tbody>
</table>

A.__________  B.__________  C.__________

David is planning on going swimming outside after school. Which thermometer shows the most reasonable temperature for David to go swimming?
14.) Janelle and her family want to go canoeing. They are looking for a 25 acre lake. Estimate the number of acre units needed to cover the lake.

= 1 acre

My estimate: ______________

Is this lake big enough for Janelle and her family to go canoeing on? Why or why not?

____________________________________________________________________________

____________________________________________________________________________

____________________________________________________________________________

____________________________________________________________________________

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