**TIPS FOR TAKING THE TEST**

Here are some suggestions to help you do your best:

- Be sure to read carefully all the directions in the test book.
- Read each question carefully and think about the answer before writing your response.
- Be sure to show your work when asked. You may receive partial credit if you have shown your work.

This picture means that you will use your ruler.
What is the value of $n$ in the equation below?

$$66 + n = 226$$

*Show your work.*

*Answer* _______________
The diagram below shows a box in a warehouse. The box is in the shape of a rectangular prism.

What is the volume, in cubic feet, of the box?

\[ V = lwh \]

*Show your work.*

*Answer* __________ cubic feet
The ratio of the number of bananas to the number of apples at a fruit stand is 3:5. Moe says that the ratio is equivalent to 12:25. In the space below, use words, numbers, or symbols to show why Moe’s statement is incorrect.

Be sure to provide a ratio equivalent to 3:5 in your answer.
Matthew plans to plot point A at (2, 3).

Plot and label point A on the coordinate plane using Matthew's coordinates.

On the lines below, explain how you determined where to plot the coordinates.
Patty has 123 CDs in her music collection. Of the 123 CDs, 27 are country music.

**Estimate** the percent of Patty’s CDs that are country music CDs.

*Estimation* 

On the lines below, explain how you determined your estimation.
At a bakery, there are 16 packages of hamburger buns for sale. The baker placed 8 hamburger buns in each package. He uses the equation below to calculate the total number of hamburger buns, \( b \), for sale.

\[
\frac{b}{8} = 16
\]

What is the total number of hamburger buns for sale at the bakery?

Show your work.

Answer _______________ hamburger buns
The temperature in Buffalo, New York, one Saturday was 68°F. The temperature the following Monday was 80°F. Write an equation that shows the change in temperature when $x$ represents the number of degrees the temperature increased.

**Equation**

How many degrees did the temperature increase?

**Show your work.**

**Answer**

degrees
What fraction can be used to create a proportion with $\frac{4}{12}$?

*Answer* $\frac{4}{12} = \underline{\phantom{000}}$

On the lines below, explain how your determined your answer.

________________________________________

________________________________________

________________________________________

________________________________________

________________________________________
The table below shows the prices of different sandwiches.

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Tuna Sandwich</td>
<td>$6.00</td>
</tr>
<tr>
<td>Small Chicken Sandwich</td>
<td>$6.50</td>
</tr>
<tr>
<td>Large Tuna Sandwich</td>
<td>$7.00</td>
</tr>
<tr>
<td>Large Chicken Sandwich</td>
<td>$8.00</td>
</tr>
</tbody>
</table>

Leota orders 3 small tuna sandwiches and 3 large chicken sandwiches. What is the total amount Leota will pay for the sandwiches she orders?

*Answer* $ _____________

In the space below, show how Leota can use the **distributive** property to calculate the total amount.
The pictograph below shows the number of trees for sale at five different nurseries.

**TREES FOR SALE**

<table>
<thead>
<tr>
<th>KEY</th>
<th>Nursery</th>
<th>Number of Trees</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌳 = 4 trees</td>
<td>Wilson</td>
<td>🌳 🌳 🌳 🌳 🌳</td>
</tr>
<tr>
<td></td>
<td>Bryant</td>
<td>🌳 🌳 🌳 🌳 🌳</td>
</tr>
<tr>
<td></td>
<td>Klein</td>
<td>🌳 🌳 🌳 🌳 🌳</td>
</tr>
<tr>
<td></td>
<td>Randolph</td>
<td>🌳 🌳 🌳 🌳 🌳</td>
</tr>
<tr>
<td></td>
<td>Smiley</td>
<td>🌳 🌳 🌳 🌳 🌳</td>
</tr>
</tbody>
</table>

How many trees are for sale at the Wilson nursery?

*Answer* ________________ trees

What is the total number of trees for sale at the Bryant nursery, the Klein nursery, and the Smiley nursery?

*Show your work.*

*Answer* ________________ trees
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Mathematics Test
Book 2
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