Use the information below to answer questions on the Math test.

**Rectangle**

- **Area** = \( l \times w \)
- **Perimeter** = \( l + l + w + w \)
Use the information below to answer questions on the Mathematics test.

1 foot = 12 inches  
1 yard = 3 feet  
1 pound = 16 ounces  

1 meter = 1,000 millimeters  
1 meter = 100 centimeters  
1 kilometer = 1,000 meters  
1 liter = 1,000 milliliters  
1 kilogram = 1,000 grams  

1 hour = 60 minutes  
1 minute = 60 seconds  

1 pint = 2 cups  
1 quart = 2 pints  
1 gallon = 4 quarts  

Rectangle  

\[
\text{Area} = l \times w  
\text{Perimeter} = l + l + w + w
\]
Use the information below to answer questions on the Math test.

### U.S. Unit Conversions
- 1 foot = 12 inches
- 1 yard = 3 feet
- 1 mile = 5,280 feet
- 1 pound = 16 ounces
- 1 ton = 2,000 pounds
- 1 minute = 60 seconds
- 1 hour = 60 minutes
- 1 day = 24 hours

### Metric Unit Conversions
- 1 meter = 1,000 millimeters
- 1 meter = 100 centimeters
- 1 kilometer = 1,000 meters
- 1 liter = 1,000 milliliters
- 1 kilogram = 1,000 grams

### Rectangular Prism
- Volume = \( l \times w \times h \)
- \( B = l \times w \)
- \( Volume = B \times h\)
Use the information below to answer questions on the Math test.

<table>
<thead>
<tr>
<th>Shape</th>
<th>Formula</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectangle</td>
<td>Area = $l \cdot w$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Perimeter = $2 \cdot (l + w)$</td>
<td></td>
</tr>
<tr>
<td>Trapezoid</td>
<td>Area = $\frac{1}{2} \cdot h \cdot (b_1 + b_2)$</td>
<td></td>
</tr>
<tr>
<td>Triangle</td>
<td>Area = $\frac{1}{2} \cdot b \cdot h$</td>
<td></td>
</tr>
<tr>
<td>Parallelogram</td>
<td>Area = $b \cdot h$</td>
<td></td>
</tr>
<tr>
<td>Rectangular Prism</td>
<td>Volume = $l \cdot w \cdot h$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volume = $B \cdot h$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$B = l \cdot w$</td>
<td></td>
</tr>
</tbody>
</table>

**Mean:** In a collection of data, the sum of all the data divided by the number of data.

**Median:** The middle number or average of the two middle numbers in a collection of data when the data are arranged in order.

**Mode:** The number or numbers that occur most often in a collection of data.

**Range:** The difference between the greatest and the least numbers in a collection of data.
Use the information below to answer questions on the Math test.

<table>
<thead>
<tr>
<th>Geometry</th>
<th>Formula</th>
</tr>
</thead>
</table>
| **Circle**        | \( r \): radius \[ \pi \approx 3.14 \]  
                  | Area: \( \pi r^2 \)  
                  | Circumference: \( 2\pi r \)  |
| **Rectangle**     | \( l \): length  
                  | \( w \): width  
                  | Area: \( lw \)  
                  | Perimeter: \( 2(l + w) \)  |
| **Trapezoid**     | \( b_1 \): base 1  
                  | \( h \): height  
                  | \( b_2 \): base 2  
                  | Area: \( \frac{1}{2}h(b_1 + b_2) \)  |
| **Triangle**      | \( h \): height  
                  | \( b \): base  
                  | Area: \( \frac{1}{2}bh \)  |
| **Parallelogram** | \( h \): height  
                  | \( b \): base  
                  | Area: \( bh \)  |
| **Rectangular Prism** | \( l \): length  
                          | \( w \): width  
                          | \( h \): height  
                          | Volume: \( lwh \)  
                          | Surface: \( 2lw + 2lh + 2wh \)  
                          |
Use the information below to answer questions on the Mathematics test.

**Pythagorean Theorem:** \[ a^2 + b^2 = c^2 \]

**Rectangular Prism**
- Volume: \[ lwh \]
- Surface Area: \[ 2lw + 2lh + 2wh \]

**Cylinder**
- Volume: \[ \pi r^2h \]
- Surface Area: \[ 2\pi r^2 + 2\pi rh \]

**Cone**
- Volume: \[ \frac{1}{3} \pi r^2h \]

**Sphere**
- Volume: \[ \frac{4}{3} \pi r^3 \]