Calculating the *SPEED* of your BRAIN!

**The Test**

- Hold a ruler between the outstretched index finger and thumb of the person you are testing (Mom or Dad) so that the top of the thumb is level with the zero centimeter line on the ruler.

- Now have the person catch the ruler with their thumb and index finger as soon as possible after you release it.

- Record the distance in centimeters between the bottom of the ruler and the top of the person's thumb where the ruler was caught.

- Repeat the test 2 more times to get an average distance the ruler dropped.

<table>
<thead>
<tr>
<th>Trial 1</th>
<th>__________cm</th>
<th>Average = ( \frac{\text{Trial 1} + \text{Trial 2} + \text{Trial 3}}{3} ) = __________cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trial 2</td>
<td>__________cm</td>
<td></td>
</tr>
<tr>
<td>Trial 3</td>
<td>__________cm</td>
<td></td>
</tr>
</tbody>
</table>

**Now do the following calculation:**

\[
\text{Speed} = \sqrt{\frac{\left(2 \times \text{cm}\right)}{980 \text{ cm/s}}} = \text{__________ seconds}
\]