GHI scores are calculated using a three-step process:

**First**, values for the four component indicators are determined from the available data for each country. The indicators are:
- the percentage of the population that is undernourished,
- the percentage of children under five years old who suffer from wasting (low weight-for-height),
- the percentage of children under five years old who suffer from stunting (low height-for-age), and
- the percentage of children who die before the age of five (child mortality).

**Second**, each of the four component indicators is given a standardized score based on thresholds set slightly above the highest country-level values observed worldwide for that indicator between 1988 and 2013. For example, the highest value for undernourishment estimated in this period is 76.5 percent, so the threshold for standardization was set a bit higher, at 80 percent. In a given year, if a country has an undernourishment prevalence of 40 percent, its standardized undernourishment score for that year is 50. In other words, that country is approximately halfway between having no undernourishment and reaching the maximum observed levels.

**Third**, the standardized scores are aggregated to calculate the GHI score for each country. Undernourishment and child mortality each contribute one-third of the GHI score, while the child undernutrition indicators—child wasting and child stunting—each contribute one-sixth of the score.

This calculation results in GHI scores on a 100-point scale, where 0 is the best score (no hunger) and 100 is the worst. In practice, neither of these extremes is reached. A value of 100 would signify that a country’s undernourishment, child wasting, child stunting, and child mortality levels each exactly meets the thresholds set slightly above the highest levels observed worldwide in recent decades. A value of 0 would mean that a country had no undernourished people in the population, no children younger than five who were wasted or stunted, and no children who died before their fifth birthday.

<table>
<thead>
<tr>
<th>FORMULA FOR CALCULATION OF GLOBAL HUNGER INDEX SCORES</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHI scores are calculated using a three-step process:</td>
</tr>
</tbody>
</table>

### STEP 1: Determine values for each of the component indicators:

- **PUN**: proportion of the population that is undernourished (in %)
- **CWA**: prevalence of wasting in children under five years old (in %)
- **CST**: prevalence of stunting in children under five years old (in %)
- **CM**: proportion of children dying before the age of five (in %)

### STEP 2: Standardize component indicators:

- Standardized PUN = \( \frac{\text{PUN}}{80} \times 100 \)
- Standardized CWA = \( \frac{\text{CWA}}{30} \times 100 \)
- Standardized CST = \( \frac{\text{CST}}{70} \times 100 \)
- Standardized CM = \( \frac{\text{CM}}{35} \times 100 \)

### STEP 3: Aggregate component indicators:

\[
\frac{1}{3} \times \text{Standardized PUN} + \frac{1}{6} \times \text{Standardized CWA} + \frac{1}{6} \times \text{Standardized CST} + \frac{1}{3} \times \text{Standardized CM} = \text{GHI score}
\]

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1. The thresholds for standardization are set slightly above the highest observed values to allow for the possibility that these values could be exceeded in the future.
2. The threshold for undernourishment is 80, based on the observed maximum of 76.5 percent; the threshold for child wasting is 30, based on the observed maximum of 26.0 percent; the threshold for child stunting is 70, based on the observed maximum of 68.2 percent; and the threshold for child mortality is 35, based on the observed maximum of 32.6 percent. While the thresholds were originally established based on the maximum values observed between 1988 and 2013, covering 25 years’ worth of available data prior to the methodological review process, these values have not been exceeded since then.