As a graduate statistics student, I need to assess which graph best represents the distribution of proportion of hits, allowing for proper analysis of shape, center, and spread.

Looking at the table provided, we have batting proportions for various players ranging from 0.054 (WG) to 0.341 (HK).

Examining each graph option:

\*\*Option A\*\*: This histogram appears to show raw frequencies without organizing the data in a meaningful way. The bins don't seem to follow a logical progression for proportion values, making it difficult to interpret the distribution.

\*\*Option B\*\*: This histogram presents a properly constructed frequency distribution of the proportion of hits. The x-axis shows proportions from approximately 0.05 to 0.35 (covering the full range of values in the table), with appropriate bin widths. The distribution appears roughly bell-shaped, allowing us to easily identify the center, spread, and shape.

\*\*Option C\*\*: This histogram has fewer bins and appears to truncate the data range, not showing the full distribution of proportions. The x-axis labeling is also problematic for interpreting batting proportions.

\*\*Option D\*\*: This appears to be a cumulative frequency diagram or an ordered display of the data, which doesn't allow for easy interpretation of the distribution's shape.

\*\*Answer: B\*\*

Option B provides the best display because:

1. It covers the full range of proportion values

2. Uses appropriate bin widths for the data

3. Creates a histogram that clearly shows the shape (approximately normal), center (around 0.20-0.25), and spread (approximately 0.05 to 0.35)

4. Allows for easy identification of potential outliers and the overall distribution pattern

This representation would give the baseball fan the most comprehensive view of how batting proportions are distributed across players.