Name _____

Interval Inspector Answer Key

1. Gap: 90 is not included. Change 91-100 to 90-99.
2. Overlap: 29 appears in two intervals. Use 10-19, 20-29, 30-39, 40-49.
3. Unequal widths: 120-134 contains 15 whole-number values while the other intervals contain 10. Use 100-109, 110-119, 120-129, 130-139.
4. Incorrect classification: 41 is in the 30-39 interval. Move 41 to 40-49.
5. Gap: 60-69 is missing. Use 40-49, 50-59, 60-69, 70-79, 80-89.
6. Incorrect classification: 90 is in the 80-89 interval. Move 90 to 90-99.

Teacher's Guide

- Review that grouped intervals should cover the data without unintended gaps or overlaps.
- Remind students that intervals in the same grouped table should normally have equal widths.
- Have students check interval boundaries carefully before checking where individual values are placed.
- For support, ask students to list the whole numbers covered by two neighboring intervals to spot gaps or overlaps.
- For additional support, complete the first item together and identify the missing value 90.
- Increase engagement by having students act as inspectors who must approve or correct each data set.
- For a challenge, ask students to name each error type as gap, overlap, unequal width, or incorrect classification before correcting it.
- Extend the activity by having students write a correct set of equal-width intervals for data ranging from 25 to 74.

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