

Fit Line Lab Answer Key

1. A reasonable line should rise from lower left to upper right, passing through the center of the points.
2. A reasonable line should fall from upper left to lower right, passing through the center of the points.
3. A reasonable line should rise from lower left to upper right, with roughly balanced points above and below it.
4. A reasonable line should fall from upper left to lower right, with roughly balanced points above and below it.

Note: Exact lines may vary. Accept reasonable lines that follow the overall linear trend and balance the data.

Teacher's Guide

- Remind students that a line of best fit shows the overall trend and does not need to pass through every point.
- Encourage students to position the line through the center of the data with roughly balanced points above and below.
- For extra support, have students first identify whether each scatter plot has a positive or negative association.
- For a challenge, ask students to select two convenient points on one of their fitted lines and estimate its slope.
- Increase engagement by having partners compare their lines and discuss why two slightly different lines can both be reasonable.
- Extend the activity by asking students to use one fitted line to estimate a y-value for a chosen x-value.