Math Practice - Grade 8

M12 Bivariate data - Use the fitted line to predict a value

M12 8.SP.A.1, 8.SP.A.2, 8.SP.A.3, 8.SP.A.4

Name: _____ Date: _____

Use the equation of the fitted line. Write the predicted value in the box.

Example: The line of best fit is y = 1/2x + 10.
Predict y when x = 26.

How: Put the x value into the equation of the fitted line and work out y. The prediction is only sensible inside the range of the data.

y = 1/2x + 10, x = 26, y = 23

1 **The line of best fit is y = 2x. Predict y when x = 38.**

y = 2x, x = 38, y = ☐

2 **The line of best fit is y = x + 8. Predict y when x = 40.**

y = x + 8, x = 40, y = ☐

3 **The line of best fit is y = 1/2x + 1. Predict y when x = 28.**

y = 1/2x + 1, x = 28, y = ☐

4 **The line of best fit is y = 3x + 3. Predict y when x = 38.**

y = 3x + 3, x = 38, y = ☐

5 **The line of best fit is y = 3/2x. Predict y when x = 6.**

y = 3/2x, x = 6, y = ☐

6 **The line of best fit is y = 1/2x + 4. Predict y when x = 24.**

y = 1/2x + 4, x = 24, y = ☐

7 **The line of best fit is y = 2x + 1. Predict y when x = 30.**

y = 2x + 1, x = 30, y = ☐

8 **The line of best fit is y = 3x + 5. Predict y when x = 18.**

y = 3x + 5, x = 18, y = ☐

9 **The line of best fit is y = x + 1. Predict y when x = 8.**

y = x + 1, x = 8, y = ☐

10 **The line of best fit is y = x + 1. Predict y when x = 32.**

y = x + 1, x = 32, y = ☐

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Use the equation of the fitted line. Write the predicted value in the box.

Example: The line of best fit is y = x + 2. Predict y when x = 14.

How: Put the x value into the equation of the fitted line and work out y. The prediction is only sensible inside the range of the data.

y = x + 2, x = 14, y = 16

1 **The line of best fit is y = 2x + 1. Predict y when x = 32.**

y = 2x + 1, x = 32, y = ☐

2 **The line of best fit is y = x + 4. Predict y when x = 10.**

y = x + 4, x = 10, y = ☐

3 **The line of best fit is y = 3/2x + 3. Predict y when x = 8.**

y = 3/2x + 3, x = 8, y = ☐

4 **The line of best fit is y = x + 2. Predict y when x = 16.**

y = x + 2, x = 16, y = ☐

5 **The line of best fit is y = 2x + 3. Predict y when x = 22.**

y = 2x + 3, x = 22, y = ☐

6 **The line of best fit is y = x + 2. Predict y when x = 12.**

y = x + 2, x = 12, y = ☐

7 **The line of best fit is y = 3/2x + 7. Predict y when x = 12.**

y = 3/2x + 7, x = 12, y = ☐

8 **The line of best fit is y = 1/2x + 7. Predict y when x = 26.**

y = 1/2x + 7, x = 26, y = ☐

9 **The line of best fit is y = 2x + 4. Predict y when x = 32.**

y = 2x + 4, x = 32, y = ☐

10 **The line of best fit is y = x + 3. Predict y when x = 40.**

y = x + 3, x = 40, y = ☐

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Name: _____ Date: _____

Use the equation of the fitted line. Write the predicted value in the box.

Example: The line of best fit is y = 1/2x + 6.
Predict y when x = 40.

How: Put the x value into the equation of the fitted line and work out y. The prediction is only sensible inside the range of the data.

y = 1/2x + 6, x = 40, y = 26

1 **The line of best fit is y = 3x + 3. Predict y when x = 34.**

y = 3x + 3, x = 34, y = ☐

2 **The line of best fit is y = 3x + 9. Predict y when x = 8.**

y = 3x + 9, x = 8, y = ☐

3 **The line of best fit is y = x + 10. Predict y when x = 14.**

y = x + 10, x = 14, y = ☐

4 **The line of best fit is y = x + 1. Predict y when x = 8.**

y = x + 1, x = 8, y = ☐

5 **The line of best fit is y = 1/2x. Predict y when x = 18.**

y = 1/2x, x = 18, y = ☐

6 **The line of best fit is y = 3x + 9. Predict y when x = 6.**

y = 3x + 9, x = 6, y = ☐

7 **The line of best fit is y = 1/2x + 10. Predict y when x = 20.**

y = 1/2x + 10, x = 20, y = ☐

8 **The line of best fit is y = 2x + 9. Predict y when x = 18.**

y = 2x + 9, x = 18, y = ☐

9 **The line of best fit is y = 2x + 7. Predict y when x = 20.**

y = 2x + 7, x = 20, y = ☐

10 **The line of best fit is y = 2x + 10. Predict y when x = 10.**

y = 2x + 10, x = 10, y = ☐