**Walking Away**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Choose your roles: recorder, measurer, and walker.Distance is to be measured to the nearest inch.1. Mark a starting point. The walker will take the number of steps indicated in the table below. For each number of steps record the distance in inches from the starting point.
2. Use the grid below to make your scatter plot. Label and scale the axes appropriately.
3. Fit a line to the data.
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|  |  |
| --- | --- |
| Number Of Steps | Distance (inches) |
| 0 |  |
| 3 |  |
| 5 |  |
| 7 |  |
| 8 |  |
| 11 |  |

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1. Find an equation for the trend line either by hand or with technology.
2. Use your equation to determine how far the walker traveled after taking 9 steps.
3. How strong is the correlation between the number of steps and the distance? Explain.
4. Is there causal relationship between the number of steps and the distance? Explain.