Using a pattern to make an equation:

Describe the pattern in words:
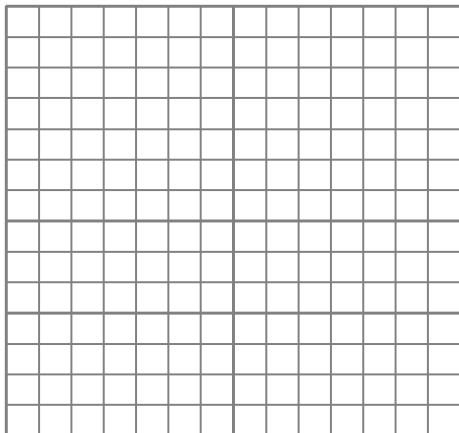

Size 1   Size 2   Size 3
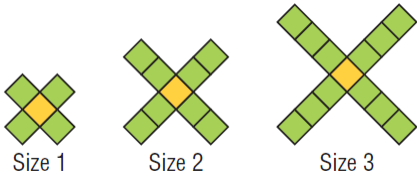
Determine the equation that relates the size number (x) with the number of squares used (n):

How many squares will there be in Size 8?

Which size has 65 squares?
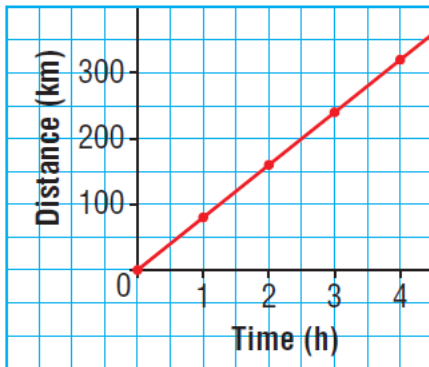

Is there a size with 103 squares? How do you know?

Graph the relation:

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Interpolation and Extrapolation:

Use the graph below to answer the following questions:

Graph of a Car Journey

1) Approximately how far has the car travelled after 1.5 hours?

2) How long did it take the car to travel 200 km?

3) What process was used to answer #1 and #2?

How long did it take the car to travel 450 km? The graph below has been extended in order to answer this question. What process is being used?
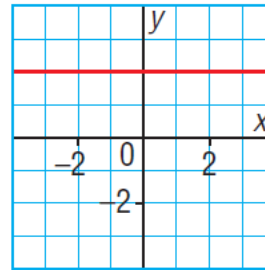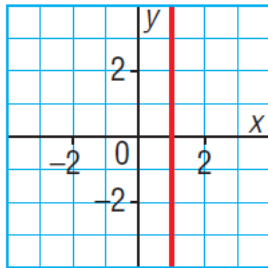
Graph of a Car Journey
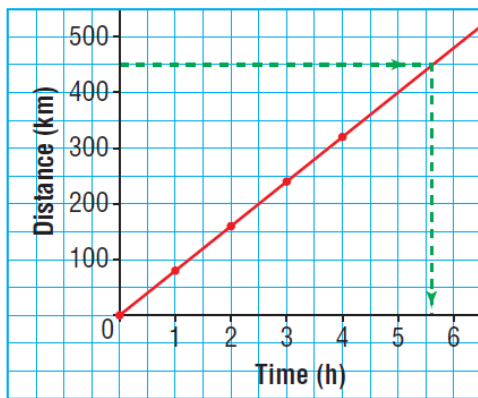
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Horizonal and vertical lines:

Equations: $y = 8$

   $x = -3$

Graphs:

Tables of values:

Time, t (s)	Distance, d (m)
0	6
30	6
60	6
90	6
120	6

Distance, x (m)	Height, y (m)
1.5	2.5
1.5	3.0
1.5	3.5
1.5	4.0
1.5	4.5