Which expression can be used to find the values of $s(n)$ in the table below?

F $3n$
G $5n$
H $n + 4$
J $3n + 2$

n	1	2	3	4	5	6
$s(n)$	5	8	11	14	?	?

Which answer would you pick? Scroll down to see the correct answer and why the other answer choices are incorrect.

Responses.

Which expression can be used to find the values of $s(n)$ in the table below?

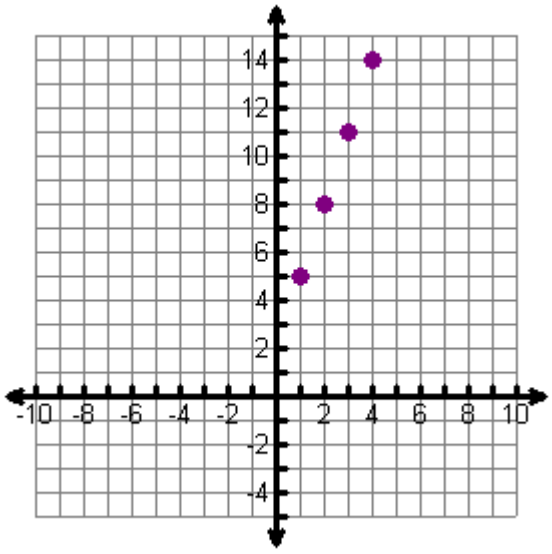
F $3n$

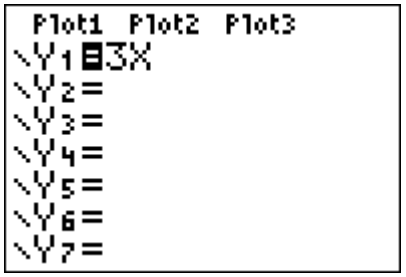
n	1	2	3	4	5	6
$s(n)$	5	8	11	14	?	?

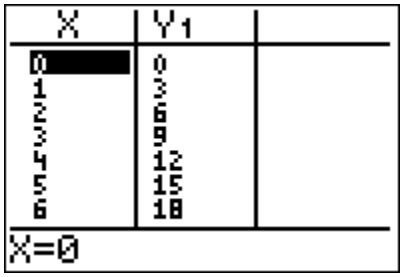
After plotting the points, the slope can be determined to be 3. Follow the points backwards and the y-intercept would be 2.

The expression should be $3n + 2$.

Verify:
The calculator's table does not match the given table.



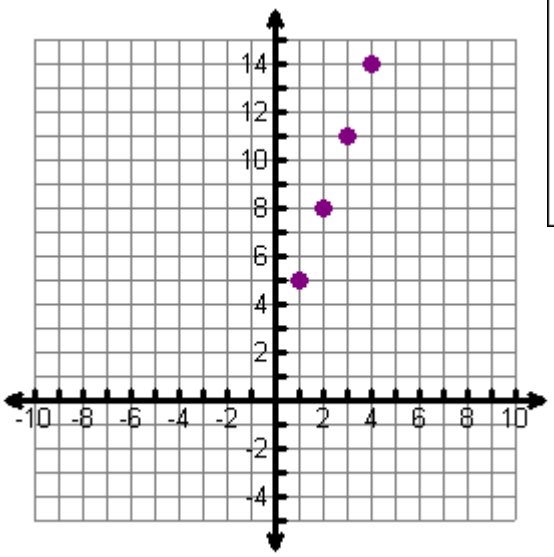


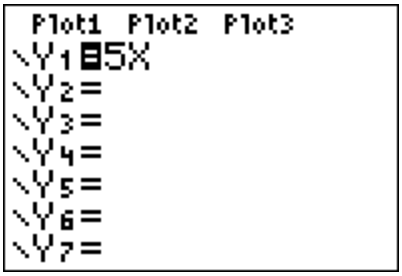


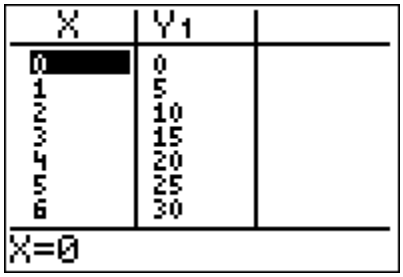
Which expression can be used to find the values of $s(n)$ in the table below?

G $5n$

n	1	2	3	4	5	6
$s(n)$	5	8	11	14	?	?







After plotting the points, the slope can be determined to be 3. Follow the points backwards and the *y*-intercept would be 2.

The expression should be $3n + 2$.

Verify:
The calculator's table does not match the given table. (1, 5) is in the calculator but no other points.

Which expression can be used to find the values of $s(n)$ in the table below?

H $n + 4$

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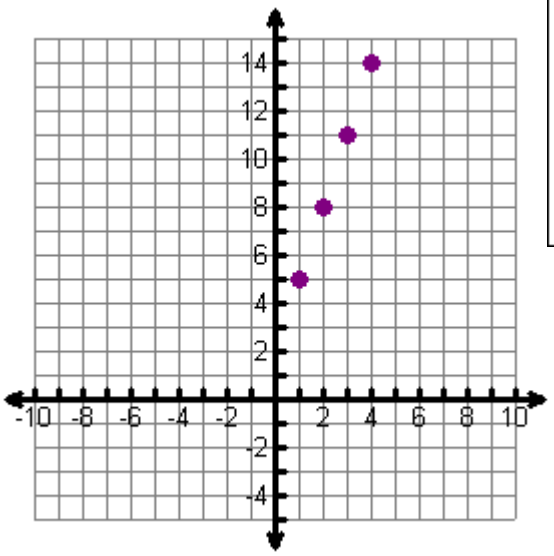

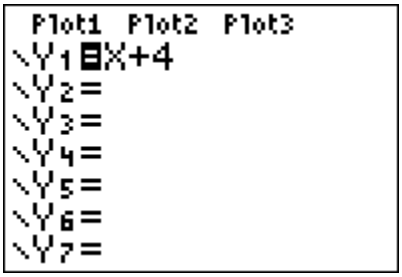

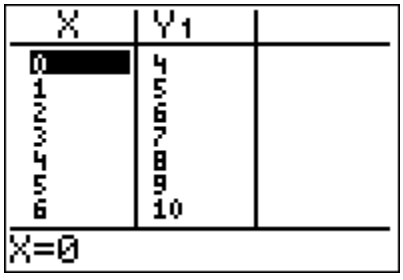

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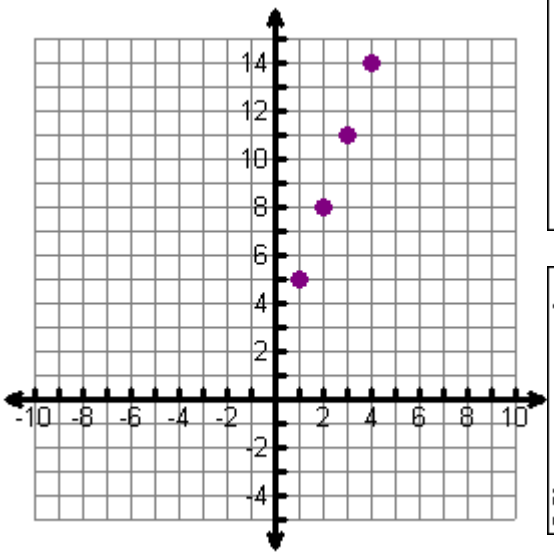
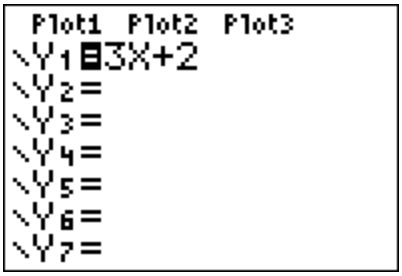
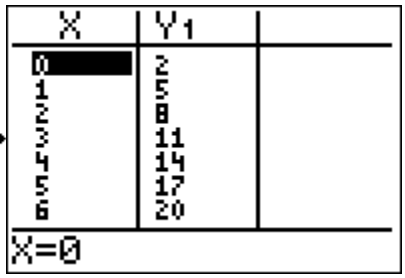






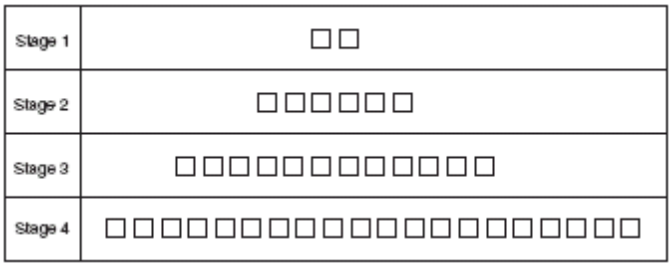
After plotting the points, the slope can be determined to be 3. Follow the points backwards and the y-intercept would be 2.

The expression should be $3n + 2$.

Verify:
The calculator's table matches!

I can count this problem correct!

2006 10th Grade
The squares below show a pattern.



Which expression can be used to determine the number of squares at stage n?

F $5n - 3$
G $4n - 2$
H $2n^2$
J $n^2 + n$

See the table for the values:

Stage, n	Number of Squares
1	2
2	6
3	12
4	20

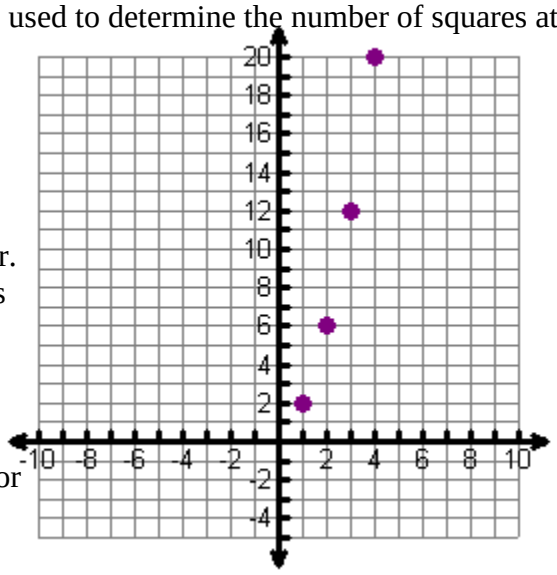
Which answer would you pick? Scroll down to see the correct answer and why the other answer choices are incorrect.

Responses.

Which expression can be used to determine the number of squares at stage n?

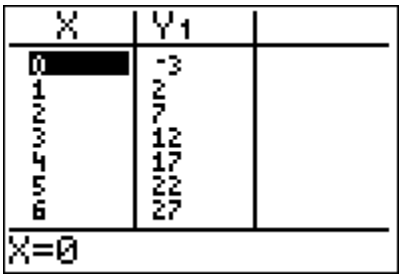
F $5n - 3$

Incorretct.
Not **F**.
It's not easy to see but these points are not linear. The slope between points are not constant.



Stage, n	Number of Squares
1	2
2	6
3	12
4	20

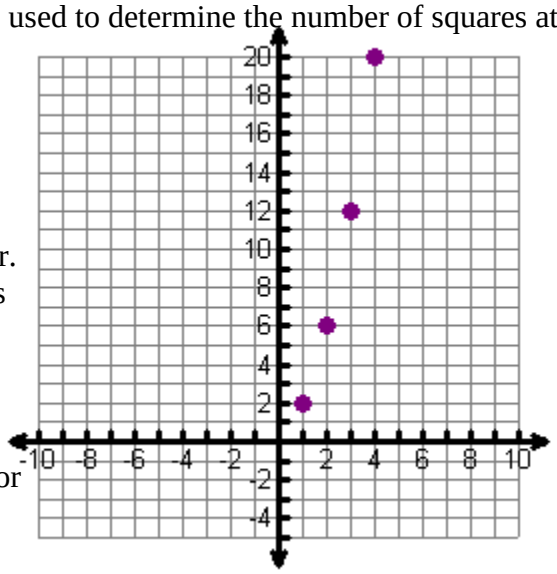
The table on the calculator does not match.



Which expression can be used to determine the number of squares at stage n?

G $4n - 2$

Incorrect.
Not **G**.
It's not easy to see but these points are not linear. The slope between points is not constant.



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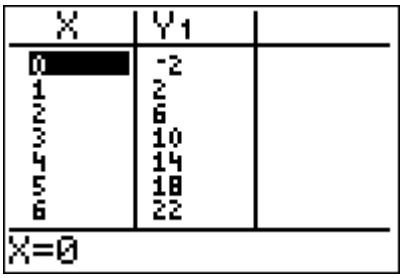
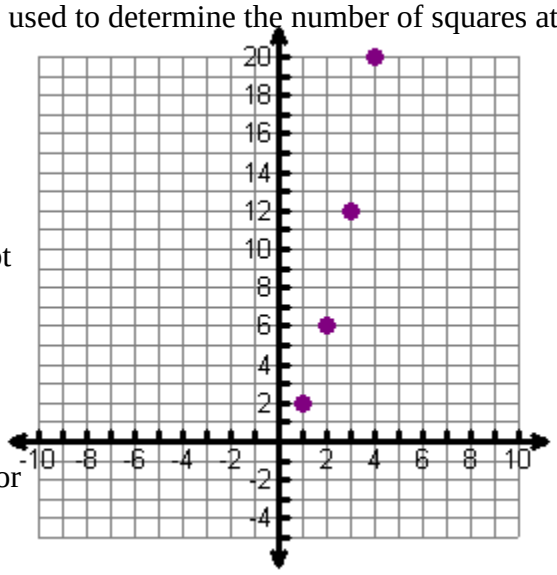


Which expression can be used to determine the number of squares at stage n?

H $2n^2$

Incorretct.
Not **H**.
These points represent a quadratic function but not the one we want.



Stage, n	Number of Squares
1	2
2	6
3	12
4	20

X	Y1
0	0
1	2
2	8
3	18
4	32
5	50
6	72

X=0

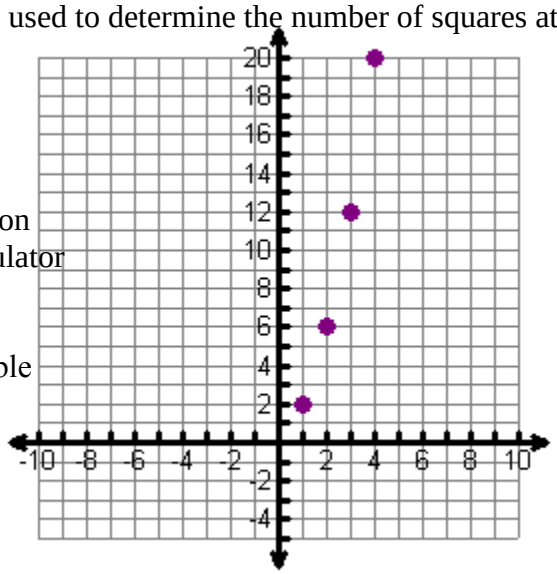
The table on the calculator does not match.

Which expression can be used to determine the number of squares at stage n?

J $n^2 + n$

Correct.
This is a quadratic function and the table on the calculator matches perfectly.

Don't worry that your table doesn't have (5, 30) and (6, 42).



Stage, n	Number of Squares
1	2
2	6
3	12
4	20

X	Y1
0	0
1	2
2	6
3	12
4	20
5	30
6	42

X=0