

Hine's Spreadsheets

ACTIVITY

You need: a computer spreadsheet

- Hine's grandad gives her \$50 towards a new bicycle. Each week from then on, Hine saves \$4.

She makes a spreadsheet to record her savings. Note that the formulae showing in spreadsheets are normally hidden.

- Explain what "week 0" in the spreadsheet means.
- Show how the formula $=B2+4$ calculates the value 54 for cell B3.
- Work out the values that go in cells B4 to B14.



Hine's spreadsheet

Hine's Savings (SS)		
	A	B
1	Week	Savings (\$)
2	0	50
3	1	$=B2+4$
4	2	$=B3+4$
5	3	$=B4+4$
6	4	$=B5+4$
7	5	$=B6+4$
8	6	$=B7+4$
9	7	$=B8+4$
10	8	
11	9	
12	10	
13	11	
14	12	

Grandad's spreadsheet		
	A	B
1	Week	Savings (\$)
2	0	$=4*A2+50$
3	1	$=4*A3+50$
4	2	$=4*A4+50$
5	3	$=4*A5+50$
6	4	$=4*A6+50$
7	5	$=4*A7+50$
8	6	$=4*A8+50$
9	7	$=4*A9+50$
10	8	
11	9	
12	10	
13	11	
14	12	

- Hine's grandad also makes a spreadsheet for Hine.
 - Make the spreadsheet. Work out the values for cells B2 to B14.
 - Show how the formula $=4*A3+50$ calculates the value 54. (The * means multiply.)
 - Check that Grandad's spreadsheet produces the same values in the savings column as Hine's.

- Hine decides to continue saving regular weekly amounts instead of buying a bicycle. She makes a second spreadsheet using her grandad's method.
 - Calculate the values that go in cells B2 to B9.
 - Make the spreadsheet and check your calculations.
 - Hine tells her grandad that his way of making spreadsheets is better than her first way. Why might she think this?
 - Calculate how much Hine can save after 1 000 weeks.

Hine's second spreadsheet

Hine's Savings2 (SS)		
	A	B
1	Week	Savings (\$)
2	0	$=4*A2+50$
3	10	$=4*A3+50$
4	12	$=4*A4+50$
5	20	$=4*A5+50$
6	52	$=4*A6+50$
7	64	$=4*A7+50$
8	100	$=4*A8+50$
9	117	$=4*A9+50$