

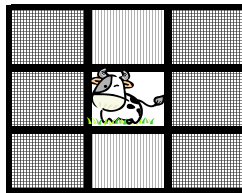
Don't Fence Me In

Solution 1: Use a table.

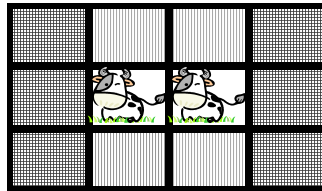
ANSWER: 206 haystacks

COWS	PROCESS	HAYSTACKS
1	$1(2) + 6$	8
2	$2(2) + 6$	10
3	$3(2) + 6$	12
4	$4(2) + 6$	14
100	$100(2) + 6$	206
n	$2n + 6$	

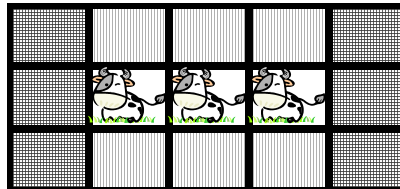
Solution 2: Use manipulatives or visuals.



2 sets of 3 haystacks on the sides will stay the same while each cow will require 2 haystacks -- one below him and one above him.



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Therefore:

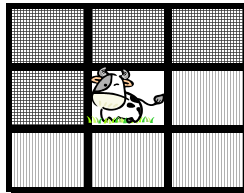
2 sets of 3 haystacks will stay the same while each cow will require 2 haystacks - one below him and one above him.

For 100 cows, 2 sets of 3 haystacks will stay the same while each cow will require 2 haystacks one below him and one above him.

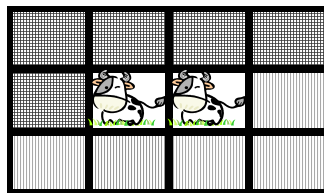
$$2(3) + 2(100) = 206 \text{ haystacks}$$

$$2(3) + 2n = \text{number of haystacks}$$

Solution 3: Use spatial skills.



2 sets of 4 haystacks for 1 cow



2 sets of 5 haystacks for 2 cows



2 sets of 6 haystacks for 3 cows

Therefore:

There will be 2 sets. Each set contains 3 more haystacks than the number of cows.

$$\text{For 100 cows, } 2(100 + 3) = 206 \text{ haystacks}$$

$$\text{For } n \text{ cows, } 2(n + 3) \text{ or } 2n + 6 = \text{the number of haystacks}$$