

# Who Stopped the Wind Power?

## The case









An animal has broken into the control room at Windy Valley Wind Farm and switched off the turbines. Ranger Fred has found clues that will help solve the mystery.

Battery storage is low and the demand for power from the locals is rising.

Use your maths skills to help find the culprit before the power runs out!

## Can you solve the mystery to find which animal was responsible? Animal suspects

Suspect		After 1 hour	Native or introduced
Blue duck/whio		61cm	Native
Rabbit/rapeti		20cm	Introduced
Sheep/hipi		120cm	Introduced
Morepork/ruru		29cm	Native
Rat/kiore		8cm	Introduced
Chicken/heihei		67cm	Introduced

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## First clue:

Find out if the animal culprit is native or introduced.

If more answers are ODD numbers, the culprit is a NATIVE animal.

If more answers are EVEN the culprit is INTRODUCED.

Question	Answer	Odd or Even
1	$4 \times 8 =$	
2	$11 \times 9 =$	
3	$67 + 34 =$	
4	$50 + 52 =$	
5	$7 \times 7 =$	
6	$100 - 28 =$	
7	$38 + 102 =$	
8	$9 \times 4 =$	

Is the culprit introduced or native?

## Second clue:

Solve the code to find out the height of the culprit.

Find a path through the maze by colouring the numbers that add up to 1,000.

Start here	$610 + 301$	$459 + 679$	$789 + 463$	$301 + 702$
$500 + 500$	$400 + 600$	$652 + 348$	$378 + 675$	$837 + 1000$
$674 + 298$	$387 + 765$	$200 + 800$	$100 + 400$	$300 + 3333$
$501 + 499$	$300 + 700$	$852 + 148$	$589 + 946$	$890 + 204$
$204 + 796$	$9488 + 1092$	$700 + 405$	$903 + 333$	$906 + 104$
The height of the culprit is between 60cm and 70cm	The height of the culprit is between 20cm and 30cm	The height of the culprit is between 70cm and 100cm	The height of the culprit is under 10cm	The height of the culprit is over 100cm

How tall is the culprit?

Look at the table on page 1 to find out who did it!

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## Clue 1:

	Question	Answer	Odd or Even
1	$4 \times 8 =$	32	Even
2	$11 \times 9 =$	99	Odd
3	$67 + 34 =$	101	Odd
4	$50 + 52 =$	102	Even
5	$7 \times 7 =$	49	Odd
6	$100 - 28 =$	72	Even
7	$38 + 102 =$	140	Even
8	$9 \times 4 =$	36	Even

More answers are even than odd numbers, therefore the culprit is an introduced animal.

## Clue 2:

Start here	$610 + 301$	$459 + 679$	$789 + 463$	$301 + 702$
$500 + 500$	$400 + 600$	$652 + 348$	$378 + 675$	$837 + 1000$
$674 + 298$	$387 + 765$	$200 + 800$	$100 + 400$	$300 + 3333$
$501 + 499$	$300 + 700$	$852 + 148$	$589 + 946$	$890 + 204$
$204 + 796$	$9488 + 1092$	$700 + 405$	$903 + 333$	$906 + 104$
The height of the culprit is between 60cm and 70cm	The height of the culprit is between 20cm and 30cm	The height of the culprit is between 70cm and 100cm	The height of the culprit is under 10cm	The height of the culprit is over 100cm

The culprit's height is between 60cm and 70cm. Only the whoo/blue duck and chicken/heihei are in this height range.

CULPRIT: The culprit was the CHICKEN/HEIHEI as she is both introduced and between 60cm and 70cm tall.