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<https://www.topmarks.co.uk/maths-games/hit-the-button>

1) John is finding a pair of numbers to fit the equation $2a + b = 15$.

Both letters represent whole numbers. John says "One of the numbers must be odd and one must be even."

Do you agree with John? Show your reasoning.

2) A and b stand for whole numbers. $A + b = 1000$ and a is 150 greater than b. Work out the values of a and b.

3) X and y are both positive whole numbers. When multiplied together they make an odd number under 20.

What could x and y be?

How many combinations can you find?