

Code Breaker: Simultaneous Equations *ANSWERS*

The Maths Habit

CRACK THE CODE

Solve each pair of equations. Your answer is the value of x . Look your answer up in the **Code Box** and write the letter it unlocks in the white box. Collect all thirteen letters in the strip, then unscramble them to find the answer.

13 CLUES



1 $x + y = 10$ $x - y = 4$ W	2 $x + y = 9$ $x - y = 1$ Y	3 $2x + y = 11$ $x + y = 8$ A	4 $3x + y = 19$ $x + y = 7$ B
5 $2x + y = 20$ $x - y = 4$ M	6 $3x - y = 5$ $x + y = 3$ A	7 $5x + 2y = 24$ $3x + 2y = 16$ J	8 $4x + 3y = 42$ $x + 3y = 15$ T
9 $2x + y = 23$ $3x + 2y = 36$ S	10 $x + 2y = 15$ $3x + y = 35$ R	11 $2x + 3y = 30$ $x + y = 14$ E	12 $3x - 2y = 1$ $x + y = 2$ R
13 $4x - y = 55$ $x + 2y = 16$ R	YOUR LETTERS W Y A B M A J T S R E R R UNSCRAMBLE Clue: something to put on toast (10, 3) <u>STRAWBERRY JAM</u>		

CODE BOX

0 = I	1 = R
2 = A	3 = A
4 = J	5 = Y
6 = B	7 = W
8 = M	9 = T
10 = S	11 = R
12 = E	13 = D
14 = R	15 = N
16 = C	17 = H
18 = P	20 = U



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