

Code Breaker: Solving Quadratics by Factorising *ANSWERS*

The Maths Habit



CRACK THE CODE

Solve each equation. Your answer is the **larger** of the two solutions. 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 $x^2 - 5x + 6 = 0$ R	2 $x^2 - 6x + 5 = 0$ J	3 $x^2 + 5x + 6 = 0$ C	4 $x^2 - 7x + 12 = 0$ I
5 $x^2 + 7x + 6 = 0$ C	6 $x^2 - 4x - 12 = 0$ O	7 $x^2 + 3x - 10 = 0$ U	8 $x^2 - 8x + 7 = 0$ T
9 $x^2 + 9x + 20 = 0$ I	10 $x^2 - 3x - 40 = 0$ E	11 $x^2 + x - 90 = 0$ L	12 $x^2 - 10x = 0$ A
13 $x^2 + 11x + 30 = 0$ P	YOUR LETTERS R J C I C O U T I E L A P UNSCRAMBLE Clue: a drink (8, 5) <u>TROPICAL JUICE</u>		

CODE BOX

-10 = G	-7 = B
-6 = N	-5 = P
-4 = I	-3 = S
-2 = C	-1 = C
0 = D	1 = M
2 = U	3 = R
4 = I	5 = J
6 = O	7 = T
8 = E	9 = L
10 = A	12 = H



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