

Factorising Monic Quadratics Codebreaker



Each question will provide you with an anagram once you have factorised and used the code. Use the clue to help you!

A	C	D	E	F	G	H	I	L	M	N	O	P	R	S	T
(x + 1)	(x - 7)	(x - 1)	(x + 6)	(x - 2)	(x - 3)	(x - 6)	(x - 4)	(x - 8)	(x + 8)	(x - 5)	(x + 5)	(x + 3)	(x + 2)	(x + 7)	(x + 4)

Question 1

Clue: vegetable → _____

$x^2 + 9x + 18$		$x^2 + 8x + 7$	
(x + 6)	(x + 3)		
E	P		

Question 2

Clue: bird → _____

$x^2 + 7x + 10$		$x^2 + 4x + 3$		$x^2 + 6x + 8$	

Question 3

Clue: fruit → _____

$x^2 + 6x + 5$		$x^2 - x - 6$		$x^2 + x - 30$	

Question 4

Clue: colour → _____

$x^2 - 6x + 5$		$x^2 - 8x + 16$		$x^2 + 2x - 15$	

Question 5

Clue: language → _____

$x^2 - 5x - 14$		$x^2 - 11x + 30$		$x^2 + 4x - 12$	

Question 6

Clue: flower → _____

$x^2 - 7x + 12$		$x^2 + 7x - 8$		$x^2 - 3x - 40$		$x^2 + 3x + 2$	

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Answers



Each question will provide you with an anagram once you have factorised and used the code. Use the clue to help you!

A	C	D	E	F	G	H	I	L	M	N	O	P	R	S	T
(x + 1)	(x - 7)	(x - 1)	(x + 6)	(x - 2)	(x - 3)	(x - 6)	(x - 4)	(x - 8)	(x + 8)	(x - 5)	(x + 5)	(x + 3)	(x + 2)	(x + 7)	(x + 4)

Question 1

Clue: vegetable → P E A S

$x^2 + 9x + 18$		$x^2 + 8x + 7$	
(x + 6)	(x + 3)	(x + 7)	(x + 1)
E	P	S	A

Question 2

Clue: bird → P A R R O T

$x^2 + 7x + 10$		$x^2 + 4x + 3$		$x^2 + 6x + 8$	
(x + 2)	(x + 5)	(x + 1)	(x + 3)	(x + 2)	(x + 4)
R	O	A	P	R	T

Question 3

Clue: fruit → O R A N G E

$x^2 + 6x + 5$		$x^2 - x - 6$		$x^2 + x - 30$	
(x + 1)	(x + 5)	(x - 3)	(x + 2)	(x + 6)	(x - 5)
A	O	G	R	E	N

Question 4

Clue: colour → I N D I G O

$x^2 - 6x + 5$		$x^2 - 8x + 16$		$x^2 + 2x - 15$	
(x - 1)	(x - 5)	(x - 4)	(x - 4)	(x + 5)	(x - 3)
D	N	I	I	O	G

Question 5

Clue: language → F R E N C H

$x^2 - 5x - 14$		$x^2 - 11x + 30$		$x^2 + 4x - 12$	
(x - 7)	(x + 2)	(x - 5)	(x - 6)	(x + 6)	(x - 2)
C	R	N	H	E	F

Question 6

Clue: flower → M A R I G O L D

$x^2 - 7x + 12$		$x^2 + 7x - 8$		$x^2 - 3x - 40$		$x^2 + 3x + 2$	
(x - 3)	(x - 4)	(x + 8)	(x - 1)	(x - 8)	(x + 5)	(x + 1)	(x + 2)
G	I	M	D	L	O	A	R