## Solving Quadratic Equations (B) by Factorising

ANSWERS



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<b>Section A</b> Find the solutions to the following equations.							
1) (x + 2)(	x + 3) = 0	-2, -3	4)	(4x + 8)(2x - 8) = 0	-2, +4		
2) (4x + 3	)(x – 3) = 0	- <del>3</del> , +3	5)	(5x – 15)(4x – 2) = 0	$+3, +\frac{1}{2}$		
3) (2x – 5)	)(3x + 2) =	$\frac{5}{2}$ , $-\frac{2}{3}$	6)	(9x – 12)(5x + 20) = 0	$\frac{4}{3}, -4$		
<b>Section B</b> Solve the following equations by factorising.							
1) x²+8	x + 15 = 0	-3, -5	6)	$x^2 + 11x - 26 = 0$	2, -13		
2) x <sup>2</sup> - 7	x + 12 = 0	4, 3	7)	$x^2 - 5x - 24 = 0$	8, -3		
3) x <sup>2</sup> + 2	x – 15 = 0	3, -5	8)	$14 + x^2 + 9x = 0$	-2, -7		
4) $x^2 - 11x + 28 = 0$		7, 4	9)	7 + x <sup>2</sup> – 8x = -25	16, 2		
5) $x^2 - x - 30 = 0$		6, -5	10)	$x^2 = 17x - 72$	8,9		

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Section C Factorise and then solve.									
1) $x^2 - 9 = 0$	-3, 3	6)	$x^2 - 20 = 5$	-5, 5					
2) $x^2 - 121 = 0$	-11, 11 7	7)	x² – 101 = -1	-10, 10					
3) $x^2 - 49 = 0$	-7, 7 8	3)	4x² – 17 = -1	-2, 2					
4) $2x^2 - 128 = 0$	-8, 8	9)	3x² – 16 = 227	-9, 9					
5) $4x^2 - 64 = 0$	-4, 4 10	))	3x² – 55 = 53	-6, 6					
Section D Factorise and then solve.									
1) $2x^2 + 15x + 25 = 0$	-2.5, -5 4	4) <sup>-</sup>	12x² – 28x – 5 = 0	$-\frac{1}{6}$ , 2.5					
2) $2x^2 - 7x - 15 = 0$	-1.5, 5 5	5) 2	28x² – 85x + 63 = 0	1 <del>2</del> , 1 <u>3</u>					
3) $3x^2 + 14x - 24 = 0$	-6,1 <u>1</u> 6	6) <sup>-</sup>	19x – 12 – 5x² = 0	0.8, 3					