

Name

Date



FACTORISING QUADRATIC EQUATIONS SHEET 8

Factorise these quadratic equations.

1)	$x^2 + 10x - 24 = 0$	$(x - \underline{\quad})(x - \underline{\quad}) = 0$	$x = \underline{\quad}$ or $\underline{\quad}$
2)	$y^2 - 15y + 14 = 0$		
3)	$z^2 - 8z - 20 = 0$		
4)	$a^2 - 7a - 30 = 0$		
5)	$b^2 - 16b + 28 = 0$		
6)	$c^2 + 15c - 34 = 0$		
7)	$d^2 - 9d - 36 = 0$		
8)	$e^2 - 10e + 25 = 0$		
9)	$f^2 - 64 = 0$		
10)	$g^2 - 11g - 42 = 0$		
11)	$h^2 + 22h + 40 = 0$		
12)	$i^2 - 14i - 32 = 0$		
13)	$j^2 - 13j + 42 = 0$		
14)	$k^2 + 3k - 54 = 0$		
15)	$m^2 + 12m - 45 = 0$		
16)	$n^2 - 13n + 40 = 0$		

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FACTORISING QUADRATIC EQUATIONS

SHEET 8 ANSWERS

1)	$x^2 + 10x - 24 = 0$	$(x - 6)(x - 4) = 0$	$x = 4$ or 6
2)	$y^2 - 15y + 14 = 0$	$(y - 14)(y - 1) = 0$	$y = 1$ or 14
3)	$z^2 - 8z - 20 = 0$	$(z - 10)(z + 2) = 0$	$z = 10$ or -2
4)	$a^2 - 7a - 30 = 0$	$(a - 10)(a + 3) = 0$	$a = 10$ or -3
5)	$b^2 - 16b + 28 = 0$	$(b - 14)(b - 2) = 0$	$b = 2$ or 14
6)	$c^2 + 15c - 34 = 0$	$(c + 17)(c - 2) = 0$	$c = -17$ or 2
7)	$d^2 - 9d - 36 = 0$	$(d - 12)(d + 3) = 0$	$d = 12$ or -3
8)	$e^2 - 10e + 25 = 0$	$(e - 5)(e - 5) = 0$ or $(e - 5)^2 = 0$	$e = 5$
9)	$f^2 - 64 = 0$	$(f + 8)(f - 8) = 0$	$f = 8$ or -8
10)	$g^2 - 11g - 42 = 0$	$(g - 14)(g + 3) = 0$	$g = 14$ or -3
11)	$h^2 + 22h + 40 = 0$	$(h + 20)(h + 2) = 0$	$h = -20$ or -2
12)	$i^2 - 14i - 32 = 0$	$(i - 16)(i + 2) = 0$	$i = 16$ or -2
13)	$j^2 - 13j + 42 = 0$	$(j - 7)(j - 6) = 0$	$j = 6$ or 7
14)	$k^2 + 3k - 54 = 0$	$(k + 9)(k - 6) = 0$	$k = -9$ or 6
15)	$m^2 + 12m - 45 = 0$	$(m + 15)(m - 3) = 0$	$m = -15$ or 3
16)	$n^2 - 13n + 40 = 0$	$(n - 8)(n - 5) = 0$	$n = 5$ or 8



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