

# Crack the Code

# Solving Quadratic Equations

<b>A</b>	Solve by factorising $x^2 + 4x + 3 = 0$ $x = -1, x = -3$	<b>B</b>	Solve by factorising $x^2 + 7x + 10 = 0$ $x = -5, x = -2$
<b>C</b>	Solve by factorising $x^2 - 9x + 14 = 0$ $x = 7, x = 2$	<b>D</b>	Solve by factorising $x^2 - 12x + 27 = 0$ $x = 9, x = 3$
<b>E</b>	Solve by factorising $x^2 + 3x - 10 = 0$ $x = -5, x = 2$	<b>F</b>	Solve by factorising $x^2 + 3x - 18 = 0$ $x = -6, x = 3$
<b>G</b>	Solve by factorising $x^2 - 8x - 20 = 0$ $x = 10, x = -2$	<b>H</b>	Solve by factorising $2x^2 + 3x + 1 = 0$ $x = -1, x = -\frac{1}{2}$
<b>I</b>	Solve by factorising $5x^2 - 11x + 2 = 0$ $x = \frac{1}{5}, x = 2$	<b>J</b>	Solve by factorising $3x^2 + 5x - 2 = 0$ $x = \frac{1}{3}, x = -2$
<b>K</b>	Solve, giving your answers to 2 decimal places, $x^2 + 6x + 2 = 0$ $x = -0.35, x = -5.65$	<b>L</b>	Solve, giving your answers to 2 decimal places, $x^2 + 5x - 21 = 0$ $x = 2.72, x = -7.72$
<b>M</b>	Solve, giving your answers to 2 decimal places, $x^2 - 8x - 13 = 0$ $x = 9.39, x = -1.39$	<b>N</b>	Solve, giving your answers to 2 decimal places, $2x^2 - 12x + 1 = 0$ $x = 5.92, x = 0.08$

Add together all your answers, multiply by 10 and round to the nearest integer to get the three-digit code.  $140.\dot{3} \rightarrow 140$