



## SOLVING EQUATIONS UNKNOWN ON BOTH SIDES

## NO CALCULATOR

Ref: G241. **4F1**

<b>A1</b> Solve $5x + 7 = 2x + 13$	<b>A2</b> Solve $8x - 38 = 4x - 6$	<b>A3</b> Solve $10x - 37 = 3x + 5$	<b>A4</b> Solve $6x + 11 = 3x - 4$
<b>B1</b> Solve $5x + 3 = 9x - 13$	<b>B2</b> Solve $3x - 3 = 4x - 6$	<b>B3</b> Solve $6x + 19 = 10x - 5$	<b>B4</b> Solve $7x + 15 = 9x + 5$
<b>C1</b> Solve $7(x - 3) = 2(x + 7)$	<b>C2</b> Solve $3(x - 4) = 2(x + 3)$	<b>C3</b> Solve $9(x + 7) = 4(x - 3)$	<b>C4</b> Solve $3(x + 2) = 2(x + 3)$
<b>D1</b> Solve $\frac{x+2}{2} = \frac{x-1}{5}$	<b>D2</b> Solve $\frac{x+5}{4} = \frac{x+7}{5}$	<b>D3</b> Solve $\frac{x+2}{5} = \frac{x-4}{3}$	<b>D4</b> Solve $\frac{x+6}{3} = \frac{x+5}{5}$



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<b>A1</b> $5x + 7 = 2x + 13$ $3x + 7 = 13$ $3x = 6$ $x = 2$	<b>A2</b> $8x - 38 = 4x - 6$ $4x - 38 = -6$ $4x = 32$ $x = 8$	<b>A3</b> $10x - 37 = 3x + 5$ $7x - 37 = 5$ $7x = 42$ $x = 6$	<b>A4</b> $6x + 11 = 3x - 4$ $3x + 11 = -4$ $3x = -15$ $x = -5$
<b>B1</b> $9x - 13 = 5x + 3$ $4x - 13 = 3$ $4x = 16$ $x = 4$	<b>B2</b> $4x - 6 = 3x - 3$ $x - 6 = -3$ $x = -3 + 6$ $x = 3$	<b>B3</b> $10x - 5 = 6x + 19$ $4x - 5 = 19$ $4x = 24$ $x = 6$	<b>B4</b> $9x + 5 = 7x + 15$ $2x + 5 = 15$ $2x = 10$ $x = 5$
<b>C1</b> $7x - 21 = 2x + 14$ $5x - 21 = 14$ $5x = 35$ $x = 7$	<b>C2</b> $3x - 12 = 2x + 6$ $x - 12 = 6$ $x = 18$	<b>C3</b> $9x + 63 = 4x - 12$ $5x + 63 = -12$ $5x = -75$ $x = -15$	<b>C4</b> $3x + 6 = 2x + 6$ $x + 6 = 6$ $x = 0$
<b>D1</b> $5x + 10 = 2x - 2$ $3x + 10 = -2$ $3x = -12$ $x = -4$	<b>D2</b> $5x + 25 = 4x + 28$ $x + 25 = 28$ $x = 3$	<b>D3</b> $3x + 6 = 5x - 20$ $5x - 20 = 3x + 6$ $2x - 20 = 6$ $2x = 26$ $x = 13$	<b>D4</b> $5x + 30 = 3x + 15$ $2x + 30 = 15$ $2x = -15$ $x = -7.5$