



SOLVING EQUATIONS UNKNOWN ON BOTH SIDES

NO CALCULATOR

Ref: G241. **4S1**

A1 Solve $7x + 5 = 4x + 11$	A2 Solve $5x - 12 = 2x - 9$	A3 Solve $4x + 13 = 8x - 25$	A4 Solve $6x - 5 = 5x + 1$
B1 Solve $9(x + 1) = 5x + 16$	B2 Solve $3x - 17 = x - 5$	B3 Solve $4x + 3 = 9(x + 2)$	B4 Solve $3x + 16 = 7x - 11$
C1 Solve $4(x + 3) = 2(x + 2)$	C2 Solve $7(x - 5) = 5(x + 3)$	C3 Solve $5(2x + 1) = 2(6x + 7)$	C4 Solve $5(4x + 1) = 3(4x - 3)$
D1 Solve $\frac{x+2}{3} = \frac{x+7}{7}$	D2 Solve $\frac{x-4}{9} = \frac{x+3}{5}$	D3 Solve $\frac{7x+9}{3} = \frac{3x+7}{2}$	D4 Solve $\frac{2x+8}{5} = \frac{3x+2}{6}$



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<p>A1</p> $7x + 5 = 4x + 11$ $3x + 5 = 11$ $3x = 6$ $x = 2$	<p>A2</p> $5x - 12 = 2x - 9$ $3x - 12 = -9$ $3x = 3$ $x = 1$	<p>A3</p> $8x - 25 = 4x + 13$ $4x - 25 = 13$ $4x = 38$ $x = 9.5$	<p>A4</p> $6x - 5 = 5x + 1$ $x - 5 = 1$ $x = 6$
<p>B1</p> $9x + 9 = 5x + 16$ $4x + 9 = 16$ $4x = 7$ $x = \frac{7}{4}$	<p>B2</p> $3x - 17 = x - 5$ $2x - 17 = -5$ $2x = 12$ $x = 6$	<p>B3</p> $9x + 18 = 4x + 3$ $5x + 18 = 3$ $5x = -15$ $x = -3$	<p>B4</p> $7x - 11 = 3x + 16$ $4x - 11 = 16$ $4x = 27$ $x = \frac{27}{4}$
<p>C1</p> $4x + 12 = 2x + 4$ $2x + 12 = 4$ $2x = -8$ $x = -4$	<p>C2</p> $7x - 35 = 5x + 15$ $2x - 35 = 15$ $2x = 50$ $x = 25$	<p>C3</p> $12x + 14 = 10x + 5$ $2x + 14 = 5$ $2x = -9$ $x = -4.5$	<p>C4</p> $20x + 5 = 12x - 9$ $8x + 5 = -9$ $8x = -14$ $x = -\frac{14}{8} = -\frac{7}{4}$
<p>D1</p> $7x + 14 = 3x + 21$ $4x + 14 = 21$ $4x = 7$ $x = \frac{7}{4}$	<p>D2</p> $9x + 27 = 5x - 20$ $4x + 27 = -20$ $4x = -47$ $x = -\frac{47}{4} \left(= -11\frac{3}{4} \right)$	<p>D3</p> $14x + 18 = 9x + 21$ $5x + 18 = 21$ $5x = 3$ $x = \frac{3}{5}$	<p>D4</p> $15x + 10 = 12x + 48$ $3x + 10 = 48$ $3x = 38$ $x = \frac{38}{3} \left(= 12\frac{2}{3} \right)$