



REARRANGING FORMULAE

TWO-STEP PROBLEMS

Ref: G241. **2F1**

A1 Make x the subject of $a = 2x - 5$	A2 Make x the subject of $a = 2(x - 5)$	A3 Make x the subject of $a = \frac{x}{2} - 5$	A4 Make x the subject of $a = \frac{x - 5}{2}$
B1 Make x the subject of $b = 3x + 7$	B2 Make x the subject of $b = \frac{x}{5} + 3$	B3 Make x the subject of $b = \frac{x - 6}{4}$	B4 Make x the subject of $b = 7(x + 4)$
C1 Make x the subject of $C = \frac{x}{b} - 7$	C2 Make x the subject of $C = 4x + b$	C3 Make x the subject of $C = \frac{x + b}{3}$	C4 Make x the subject of $C = bx - 1$
D1 Make x the subject of $d = \frac{c + x}{b}$	D2 Make x the subject of $d = c(x + b)$	D3 Make x the subject of $d = bx - c$	D4 Make x the subject of $d = \frac{x}{c} + b$
E1 Make x the subject of $E = ax + bc$	E2 Make x the subject of $E = \frac{x - ac}{b}$	E3 Make x the subject of $E = \frac{x}{ac} - bd$	E4 Make x the subject of $E = a(x + bcd)$



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<p>A1 Make x the subject of</p> $a = 2x - 5 \quad 2x = a + 5$ $x = \frac{a + 5}{2}$	<p>A2 Make x the subject of</p> $a = 2(x - 5) \quad x - 5 = \frac{a}{2}$ $x = \frac{a}{2} + 5$	<p>A3 Make x the subject of</p> $a = \frac{x}{2} - 5 \quad \frac{x}{2} = a + 5$ $x = 2(a + 5)$	<p>A4 Make x the subject of</p> $a = \frac{x - 5}{2} \quad x - 5 = 2a$ $x = 2a + 5$
<p>B1 Make x the subject of</p> $b = 3x + 7 \quad 3x = b - 7$ $x = \frac{b - 7}{3}$	<p>B2 Make x the subject of</p> $b = \frac{x}{5} + 3 \quad \frac{x}{5} = b - 3$ $x = 5(b - 3)$	<p>B3 Make x the subject of</p> $b = \frac{x - 6}{4} \quad x - 6 = 4b$ $x = 4b + 6$	<p>B4 Make x the subject of</p> $b = 7(x + 4) \quad x + 4 = \frac{b}{7}$ $x = \frac{b}{7} - 4$
<p>C1 Make x the subject of</p> $C = \frac{x}{b} - 7 \quad \frac{x}{b} = C + 7$ $x = b(C + 7)$	<p>C2 Make x the subject of</p> $C = 4x + b \quad 4x = C - b$ $x = \frac{C - b}{4}$	<p>C3 Make x the subject of</p> $C = \frac{x + b}{3} \quad x + b = 3C$ $x = 3C - b$	<p>C4 Make x the subject of</p> $C = bx - 1 \quad bx = C + 1$ $x = \frac{C + 1}{b}$
<p>D1 Make x the subject of</p> $d = \frac{c + x}{b} \quad c + x = bd$ $x = bd - c$	<p>D2 Make x the subject of</p> $d = c(x + b) \quad x + b = \frac{d}{c}$ $x = \frac{d}{c} - b$	<p>D3 Make x the subject of</p> $d = bx - c \quad bx = d + c$ $x = \frac{d + c}{b}$	<p>D4 Make x the subject of</p> $d = \frac{x}{c} + b \quad \frac{x}{c} = d - b$ $x = c(d - b)$
<p>E1 Make x the subject of</p> $E = ax + bc \quad ax = E - bc$ $x = \frac{E - bc}{a}$	<p>E2 Make x the subject of</p> $E = \frac{x - ac}{b} \quad x - ac = Eb$ $x = Eb + ac$	<p>E3 Make x the subject of</p> $E = \frac{x}{ac} - bd \quad \frac{x}{ac} = E + bd$ $x = ac(E + bd)$	<p>E4 Make x the subject of</p> $E = a(x + bcd)$ $x + bcd = \frac{E}{a} \quad x = \frac{E}{a} - bcd$