

Solving equations

a) $x + 3 = 5$ $x + 3 - 3 = 5 - 3$ (subtract 3) $x = 2$ (1 step)	b) $2x + 7 = 11$ $2x + 7 - 7 = 11 - 7$ (subtract 7) $2x \div 2 = 4 \div 2$ (divide by 2) $x = 2$ (2 steps)	c) $4x = 8$ $4x \div 4 = 8 \div 4$ (divide by 4) $x = 2$ (1 step)
d) $8 = 10 - 2x$ $8 + 2x = 10 - 2x + 2x$ (add $2x$) $8 + 2x - 8 = 10 - 8$ (subtract 8) $2x \div 2 = 2 \div 2$ (divide by 2) $x = 1$ (3 steps)	e) $x - 3 = 5$ $x - 3 + 3 = 5 + 3$ (add 3) $x = 8$ (1 step)	f) $3x - 1 = 5$ $3x - 1 + 1 = 5 + 1$ (add 1) $3x \div 3 = 6 \div 3$ (divide by 3) $x = 2$ (2 steps)
g) $4x + 3 = 2x + 7$ $4x + 3 - 2x = 2x + 7 - 2x$ (subtract $2x$) $2x + 3 - 3 = 7 - 3$ (subtract 3) $2x \div 2 = 4 \div 2$ (divide by 2) $x = 2$ (3 steps)	h) $5x + 2 = 4x + 3$ $5x + 2 - 4x = 4x + 3 - 4x$ (subtract $4x$) $x + 2 - 2 = 3 - 2$ (subtract 2) $x = 1$ (2 steps)	i) $6 = x + 3$ $6 - 3 = x + 3 - 3$ (subtract 3) $x = 3$ (1 step)

j) $10 = 2x$ $10 \div 2 = 2x \div 2$ (divide by 2) $x = 5$ (1 step)	k) $7 - 2x = 1$ $7 - 2x + 2x = 1 + 2x$ (add 2x) $7 - 1 = 1 + 2x - 1$ (subtract 1) $6 \div 2 = 2x \div 2$ (divide by 2) $x = 3$ (3 steps)	l) $9 = 6x + 3$ $9 - 3 = 6x + 3 - 3$ (subtract 3) $6 \div 6 = 6x \div 6$ (divide by 6) $x = 1$ (2 steps)
m) $7x - 3 = 7 + 2x$ $7x - 3 - 2x = 7 + 2x - 2x$ (subtract 2x) $5x - 3 + 3 = 7 + 3$ (add 3) $5x \div 5 = 10 \div 5$ (divide by 5) $x = 2$ (3 steps)		

One step equations	a, c, e, i, j
Two step equations	b, f, h, l
Three step equations	d, g, k, m