# Equations: brackets and constant denominators — Further practice

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**Further practice** 11

Solve after expanding both sides.

$$3(x+2) = 2(x+5)$$

**Further practice** 12

Solve with the outside minus applied to both enclosed terms.

$$-(x-5) = 2x - 1$$

**Further practice** 13

Clear both denominators using 6, then solve.

$$\frac{x}{3} + \frac{x}{6} = 5$$

**Further practice** 14

Multiply both sides by 4, then solve.

$$\frac{3x-2}{4} = \frac{x+2}{2}$$

**Extension** 15

Solve, showing both distributive steps before collecting.

$$2(x-1) - 3(x+2) = 4 - 2x$$

**Extension** 16

Use 6 as a common multiplier and retain the subtraction of the entire second numerator.

$$\frac{x+1}{2} - \frac{x-2}{3} = 3$$