

Worksheet: Opening Brackets

This worksheet is designed to help you practise removing brackets from algebraic formulae.

Model solutions to
this sheet



Opening Brackets
study guide



1. Open the brackets in the following expressions:

a. $3(x + y)$

b. $x(3 - y)$

c. $-2y(x + 3)$

d. $ab(c + 4)$

e. $3(x + y - z)$

f. $\frac{1}{2}(2x - 7y)$

g. $3s(s - 3s^2)$

h. $-(x + y + z)$

2. Open the brackets in the following expressions and collect like terms:

a. $4(x - y) + 5(y - x)$

b. $x(5 - 4y) - 3(x + y)$

c. $3(p - 2) + 5p - 7$

d. $3 - \frac{1}{4}(4x - 12y + 16)$

3. Open the brackets in the following expressions and simplify your answers:

a. $(x + y)(x - y)$

b. $(x - y)^2$

c. $(x + 2y)^2$

d. $(3x - 5y^2)(y - 3x^2)$

e. $(a + 2b - 3c)(2a - b + c)$

f. $(r - s)(r + s)(2r - 3s)$



This worksheet is one of a series on
mathematics produced by the
Learning Enhancement Team.

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