English, Maths and Foundation Learning

Barnet Southgate College

HeadStart

Algebra Revision Part 1





Contents

- Worded algebra
- Substitution
- Simplifying (Addition and Subtraction)
- Simplifying (Multiplication and Division)
- Brackets
- Factorising



Worded Algebra

• Three times a number subtracted from 8

• A number times itself added to 5 times another number gives 30

8-3X

Have a go!

• A number multiplied by 7 then take away 4

- Divide a number by 3 then subtract it from 8
- A number multiplied by 2, then multiply the result by itself!





Substitution

• If x = 5, y = 3 and z = -2 then what are the values of

• 2x-y 2X5-7 7 • *x*²y **75** 2z - 3x
3x - 2z



Have a go! If a = 3, b = 4 and c = -4 What are • 3a + 5b • ab²-c • 3c -2b -12 - 8 = -20• a(2b + c²) 3 (c + 16) 5 73-

Simplifying 1 Adding and Subtracting (Collecting like terms)

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- 5x + 3x
- 8x y 5x 3yx - 4' • $7x^2 - 8y - 11x^2 + y$







Have a go • 5x + 8y - 6x - 11y + yスチンシュー • $8x^2y \times 3x^3yz^2$ • $(3x^3)^3$ 2729 $\bullet \frac{8x^3y^5}{2xy^2}$ 4 x 43









Quadratic Brackets and Factorising

- Expand and simplify (x + 5)(x + 3)
- Factorise $x^2 + 8x + 15$ $C_{x+} 3)(x+5)$
- Factorise $x^2 + 12x + 35$ (x + 5)(x + 7)



Some Harder ones to have a go at

- Expand and simplify (3x-5)(2x-3)
- Factorise $x^2 7x 30$
- Factorise $x^2 7x + 12$

