

Revision Worksheet

Year 9 Maths

(1.0) Like Terms: "Like terms have the same variables raised to the same power"

Collect like terms:

a) $a^2, a^2, 2ab, 2a^2, a, -a^2$

b) $4b^2, b, 4b^2, x, 4b, -b$

Simplify the following:

c) $8m^2 + 2m^2$

d) $7r - 3r - r$

e) $2a^2 \times 3a^2$

Challenging Questions: Simplify the following

f) $8e + 5 \times 3e$

g) $11ab - 6ba \times 4$

h) $14a^2 \times 2b + 2b^2$

(2.0) Factorisation:

Find the HCF (highest common factor) for:

a) 8 & 40

b) ab & $3abc$

Factorise the following:

c) $16c - 2cd$

Challenging Questions: Factorise the following

d) $x^2 - 3x + 4x - 12$

e) $y^2 - 6y + 4y - 24$

f) $q^2 + 12q - 6q - 72$

(3.0) Distributive Laws:

Distribute the following:

a) $2(6 + a)$

b) $5(b - 4)$

c) $8(2 - 2c)$

Challenging Questions: Expand & then simplify

d) $2d(5 + 3dw - 8d)$

e) $e(-4e + e - wy - 7)$

f) $-4(5hw - 3x^2 + 2f - 7)$

(4.0) Binomials:

(4.1) F.O.I.L. method: (First, Outer, Inner, Last)

Expand the following expressions:

a) $(a - 1)(a - 5)$

b) $(b + 6c)(b + 3c)$

c) $(c + 7b)(2c - 8b)$

(4.2) Multiplication table method:

Expand the following expressions:

d) $(2y + 3)(y + 5)$

e) $(w - 2q)(w + q)$

x		

x		

(4.3) Square of a sum: $(a + b)^2 = (a + b)(a + b) = a^2 + 2ab + b^2$

Expand the following expressions:

a) $(a + 2)^2$

b) $(b + 5)^2$

c) $(c + 9)^2$

Challenging Questions:

d) $(3 + 2d)^2$

e) $(9e + 2)^2$

f) $(f + 2g)^2$

(4.4) Square of a difference: $(a - b)^2 = (a - b)(a - b) = a^2 - 2ab + b^2$

Expand the following expressions:

a) $(a - 2)^2$

b) $(b - 5)^2$

c) $(c - 9)^2$

Challenging Questions:

d) $(6d - 5)^2$

e) $(9 - 7e)^2$

f) $(12f - 4g)^2$

(4.5) Difference of perfect squares: $(a + b)(a - b) = a^2 - b^2$

Expand the following expressions:

a) $(a + 2)(a - 2)$

b) $(b - 5)(b + 5)$

c) $(c - 9)(c + 9)$

Challenging Questions:

d) $(5d + 2)(5d - 2)$

e) $(10e - 4)(10e + 4)$

f) $(9f - 6g)(9f + 6g)$

Ks3 Year 9 Maths Papers

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