Factoring Perfect Squares and a Difference of Squares

Level 1 - Factor simple perfect squares and simple difference of squares
Level 2 - Factor more complex expressions where a GCF may be present
Level 3 - Factor complex expressions which may include two or more variables

Answers:

Level 1

a) $(x-2)(x+2)$	**b)** $(x-3)(x+3)$	**c)** $(x-10)(x+10)$
d) $(x-8)(x+8)$	**e)** $(x-13)(x+13)$	**f)** $(x-5)(x+5)$
g) $(7-x)(7+x)$	**h)** $(x-1)(x+1)$	**i)** $(x-y)(x+y)$
j) $(x+1)^2$	**k)** $(x-3)^2$	**l)** $(x+5)^2$
m) $(x-2)^2$	**n)** $(x-4)^2$	**o)** $(x+3)^2$
p) $(x+4)^2$	**q)** $(x-5)^2$	**r)** $(x-6)^2$

Level 2

a) $4(x-4)(x+4)$	**b)** $2(x-6)(x+6)$	**c)** $9(x-1)(x+1)$
d) $5(x-3)(x+3)$	**e)** $(7x-5)(7x+5)$	**f)** $2(x-2)(x+2)$
g) $3(x-5)(x+5)$	**h)** $-3(x-4)(x+4)$	**i)** $(3x-1)(3x+1)$
j) $-2(x-1)(x+1)$	**k)** $(6x-11)(6x+11)$	**l)** $x(x-2)(x+2)$
m) $3(x+3)^2$	**n)** $2(x-1)^2$	**o)** $3(x+5)^2$
p) $(3x-5)^2$	**q)** $(5x-4)^2$	**r)** $4(5x-1)^2$

Level 3

a) $(3x-4y)(3x+4y)$	**b)** $(5-3x)(5+3x)$
c) $7(x-2y^2)(x+2y^2)$	**d)** $(x+3y)^2$
e) $4z(x-3y)(x+3y)$	**f)** $(2x+3y)^2$