## Quadratic Equations - www.m4ths.com - Steve Blades

Solve each equation by either square rooting both sides, by factoring using single brackets or by factoring using double brackets.

All of the answers are integers, so if you don't have an integer (or two!) for your answers check you method!

(1) 
$$x^2 = 121$$

$$(11) x^2 + 5x + 6 = 0$$

$$(21) x^2 = 5x + 36$$

(2) 
$$4x^2 = 400$$

(12) 
$$x^2 = 7x$$

$$(22)(5x-3)(x-7) = 0$$

(3) 
$$x^2 - 23 = 121$$

$$(13) x^2 - 100 = 0$$

(23) 
$$x^2 = 8x$$

$$(4) x^2 - 9x = 0$$

$$(14) x^2 + 14x + 13 = 0$$

$$(24) x^2 + 10x - 24 = 0$$

$$(5) 2x^2 + 10x = 0$$

$$(15) x^2 = 4x + 12$$

$$(25) 6 - x^2 - x = 0$$

(6) 
$$x^2 = 625$$

$$(16) x^2 - 5x - 14 = 0$$

$$(26) x^2 = x + 42$$

$$(7) 4x^2 + 3x = 0$$

$$(17)(x-3)(2x+1)=0$$

$$(27) 5x^2 = 125$$

(8) 
$$x^2 + 2x = 0$$

$$(18) 2x^2 - 98 = 0$$

$$(28) x^2 - 10x = -25$$

(9) 
$$x^2 + x - 20 = 0$$

$$(19) x^2 - 4 + 3x = 0$$

$$(29) 2x^2 + 2x = 24$$

$$(10) 7x^2 - 14x = 0$$

$$(20) x^2 - x = 12$$

$$(30) x^2 + x = 56$$