Objective: TBAT factorise quadratics

DIRT

☐ Met ☐ Partially Met ☐ Not Met

Work on the following sections: ☐ Column 1 ☐ Column 2 ☐ Extension

Column 1	Column 2
Factorise the following: *a)* $x^2 + 5x + 6$ *b)* $x^2 + 4x + 4$ *c)* $x^2 + 12x + 20$ *d)* $x^2 + 10x + 16$ *e)* $x^2 + 7x + 10$ *f)* $x^2 + 9x + 14$	Factorise the following: *a)* $x^2 - 5x - 14$ *b)* $x^2 + 4x - 12$ *c)* $x^2 + 7x - 18$ *d)* $x^2 - 7x + 10$ *e)* $x^2 - 11x + 18$ *f)* $x^2 - 8x + 48$
Factorise the following: *a)* $x^2 + 4x - 12$ *b)* $x^2 + 6x - 16$ *c)* $x^2 + 8x - 20$ *d)* $x^2 + 2x - 63$ *e)* $x^2 + 2x - 15$ *f)* $x^2 + 6x - 27$	The area of the rectangle is: $x^2 - 4x - 32$  $(x - b)$ $(x + a)$ Work out the value of a and b

Extension:

A quadratic expression, $x^2 + ax + 20$, can be factorised.
Find all possible values for a.
a can be positive or negative.