Timester Challenge
Factorising Linear Expressions

Factorise

1) $5j + 15$

2) $6f - 15$

Bronze ⭐

Factorise the following expressions fully.

1) $3xy + 6y$

2) $15x^2y + 18xy$

Silver ⭐

The area of the rectangle is $4x^2 + 12x$. List all the possible dimensions the rectangle could have in terms of x.

Factorise

1) $y^2 + 18y$

2) $3xy + 4x^2$

Bronze ⭐

Circle the fully factorised answer of $4y^2 - 16y$.

Circle the correct answer

$y(4y - 16)$ $4(y + 2)(y - 2)$

$(2y + 4)(2y - 4)$ $4(y^2 - 4)$

$4y(y - 4)$ $4y(y + 4)$

Silver ⭐

Area
$4x^2 + 12x$

Gold ⭐

Timester Challenge
Factorising Linear Expressions

Factorise

1) $5j + 15 = 5(j + 3)$

2) $6f - 15 = 3(2f - 5)$

Bronze ⭐

Factorise the following expressions fully.

1) $3xy + 6y = 3y(x + 2)$

2) $15x^2y + 18xy = 3xy(5x + 6)$

Silver ⭐

The area of the rectangle is $4x^2 + 12x$. List all the possible dimensions the rectangle could have in terms of x.

Option	Factorised	Dimension 1	Dimension 2
A	$1(4x^2 + 12x)$	1	$4x^2 + 12x$
B	$2(2x^2 + 6x)$	2	$2x^2 + 6x$
C	$4(x^2 + 3x)$	4	$x^2 + 3x$
D	$x(4x + 3)$	x	$4x + 3$
E	$2x(2x + 6)$	$2x$	$2x + 6$
F	$4x(x + 3)$	$4x$	$x + 3$

Factorise

1) $y^2 + 18y = y(y + 18)$

2) $3xy + 4x^2 = x(3y + 4x)$

Bronze ⭐

Circle the fully factorised answer of $4y^2 - 16y$.
Circle the correct answer

$y(4y - 16)$ $4(y + 2)(y - 2)$

$(2y + 4)(2y - 4)$ $4(y^2 - 4)$

$\boxed{4y(y - 4)}$ $4y(y + 4)$

Silver ⭐

Area
$4x^2 + 12x$

Gold ⭐