

**Ex1**Factorise  $2ab + 4b$ .**Ex2**Factorise  $16x^2y + 24xy$ .**Q3**

Factorise,

**[a]**  $6gh + 12h$

**[b]**  $2ab + ad$

**[c]**  $9rt - 12r$

**[d]**  $k^2 + 5k$

**[e]**  $2x^2y^2 + 6xy^2$

**[f]**  $14u^3t - 21u^2t$

**[g]**  $9x^2 + 3x - 6xy^2$

**[h]**  $4p^2q - 6pq^3 + 2pq$

**Q4**

Fill in the missing boxes to make the following true.

**[a]**  $5x + 20 = \square(x + 4)$

**[b]**  $6y + 30 = \square(y + 5)$

**[c]**  $16 - 4e = 4(\square - e)$

**[d]**  $21 + 7p = 7(3 + \square)$

**[e]**  $14 - 6d = 2(\square - 3d)$

**[f]**  $44h + 36 = \square(11h + 9)$

**[g]**  $72r - 12 = 12(\square - 1)$

**[h]**  $51 - 17t = 17(3 - \square)$

**[q]**  $32t + 4u + 16v = 4(\square + \square + \square)$

**[r]**  $56a^2 + 35ab + 14ac = 7a(\square + \square + \square)$

**[s]**  $8rt^2 + 2rt - 4r = \square(4t^2 + \square - \square)$

**[t]**  $10a^2 - 20ab + 12a = \square(\square - \square + 3)$

**[i]**  $ab + 4b = \square(a + 4)$

**[j]**  $pq + 3p = \square(q + 3)$

**[k]**  $8t - 4rt = 4t(\square - r)$

**[l]**  $6gh + 12h = \square(g + 2)$

**[m]**  $5p^2 + p = \square(5p + 1)$

**[n]**  $6t^2 - t = \square(6t - 1)$

**[o]**  $xy^2 + x^2y = \square(y + x)$

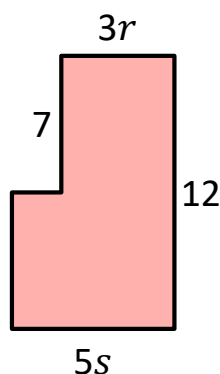
**[p]**  $a^3b^2 - a^2b = \square(ab - 1)$

**Q5** Simplify and then factorise the following expressions.

**[a]**  $5a - 8b + 13a - 4b$

**[b]**  $7r - 8s + 20s + 8r$

**[c]**  $11m - 4t + 14m - 6t$

**Q6** Find and factorise the expression for the area of the following compound shape.**Q7**

Write the letter of the expression next to its factorised form.

**[a]**  $4x + 20$

**[b]**  $4x - 20$

**[c]**  $4 - 20x$

**[d]**  $4 + 20x$

**[f]**  $4x^2 + 20x$

**[e]**  $4x - 20x^2$

**[g]**  $4x^2 + 20x^3$

	Double brackets	Letter
<b>[a]</b> $4x + 20$		
<b>[b]</b> $4x - 20$	$4(1 + 5x)$	
<b>[c]</b> $4 - 20x$	$4x(x + 5)$	
<b>[d]</b> $4 + 20x$	$4x^2(1 + 5x)$	
<b>[f]</b> $4x^2 + 20x$	$4(x - 5)$	
<b>[e]</b> $4x - 20x^2$	$4x(1 - 5x)$	
<b>[g]</b> $4x^2 + 20x^3$	$4(x + 5)$	
	$4(1 - 5x)$	