SMPINteract H1–2 (Ch.15 Working with expressions)

For each puzzle,

- find the value of each expression
- shade in your values on the diagram on the right
- your answers should make a path across the board from S to F





SMPinteract H1–3 (Ch.15 Working with expressions)

Cut out the 18 rectangular 'cover-up' pieces below.

Put the pieces on the board so that each piece covers a pair of expressions which multiply to give that answer.

For example, 6*ab* could cover 2*a* and 3*b* or it could cover 3*a* and 2*b*.

The pieces can be put this way

or this way

• Can you find a way to cover the whole board?

Cover-up board

7a	Ь	5 <i>b</i> ²	а	a ²	3 <i>a</i> ²
а	4 <i>a</i>	3a	Ь	4 <i>a</i>	2 <i>b</i>
3 <i>a</i> ²	Ь	2a	4 <i>b</i> ²	2 <i>b</i>	3a
7ab	2	3 <i>b</i>	5	2a	3a
ab ²	$4b^{2}$	4 <i>a</i>	b^2	2 <i>a</i> ²	11 <i>ab</i>
6a	2 <i>b</i>	5 <i>b</i>	b	а	ab

Cover-up pieces

8 <i>b</i> ²	6ab	8 <i>b</i> ³	6 <i>a</i> ² <i>b</i>
3 <i>a</i> ² <i>b</i>	7 <i>a</i> ²	5 <i>ab</i> ²	4 <i>a</i> ³
12 <i>ab</i>	4ab	3ab	$5b^{2}$
$11a^2b^2$	10a	9 <i>a</i> ²	$4ab^2$
2 <i>a</i> ³	$7a^2b^3$		