

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, $8a^3$ could cover $4a$ and $2a^2$ or it could cover $8a^2$ and a .

The pieces can be put this way or this way .

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

Cover-up pieces

| | | | |
|------------|---------|---------|---------|
| $7a^2$ | $3a^3$ | $12a^4$ | $8a^5$ |
| $12a^8$ | $12a^6$ | $6a^7$ | $10a^3$ |
| $5a^2$ | $15a^3$ | $9a^3$ | $14a^9$ |
| $11a^{12}$ | a^8 | $6a^3$ | $8a^3$ |
| $16a^5$ | $25a^2$ | | |

Cover-up board

| | | | | | |
|---------|---------|-------|--------|--------|--------|
| $11a^7$ | $3a^2$ | $2a$ | $2a^2$ | $3a^2$ | $4a^2$ |
| a^5 | a^3 | a^5 | $4a$ | $3a^2$ | a |
| $4a^2$ | $4a^3$ | $7a$ | $2a^5$ | $6a^3$ | $2a$ |
| a^3 | $12a^3$ | a | $4a^3$ | $3a^3$ | $5a^2$ |
| $5a$ | $3a^2$ | $3a$ | $2a^2$ | $2a^4$ | $3a^3$ |
| $5a$ | $5a$ | a | $7a^5$ | $2a^4$ | 5 |