

Name & Surname: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_

Grade 4 & 5 2025 # 26 Hand in by Thurs 4 Sept

We want to paint each square in the grid with the colours A, B, C and D so that neighbouring squares always have different colours. (Squares which share the same corner point also count as neighbouring.) Some of the squares are already painted.

In which colour(s) could the grey square be painted?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B |  | C | D |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

There are two options for the middle square in the top row:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | A | C | D |
| D | C | D | B | A |
| A | B | A | C | D |
| D | C | D | B | A |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | D | C | D |
| D | C | A | B | A |
| A | B | D | C | D |
| D | C | A | B | A |

Thus, the grey square has to be painted A