

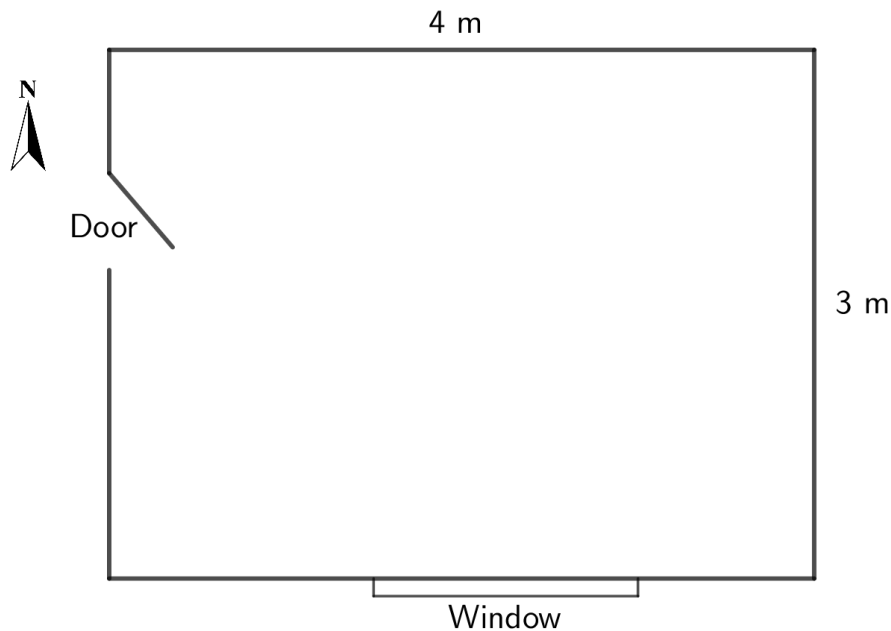


Problem of the Week

Problem B

Redecoration Station

Nimrat wants to redecorate her bedroom. The floor plan for her bedroom is shown below.



The walls in Nimrat's bedroom are 2.5 m high.

- Nimrat wants nice, plush, wall-to-wall carpet in her bedroom. How many square metres of carpet will she need to buy? If the carpet she buys costs \$20 per square metre, how much will her carpet cost in total?
- Wallpaper costs \$8 per square metre. How much wallpaper will she need to cover the north and east walls? How much will it cost for the wallpaper for those two walls?
- She decides to paint the south and west walls, and the cost for paint to do so is \$75. If her total budget is \$500 for carpet, wallpaper, and paint, how much over or under her budget is she?