

Codefez 2.2 Programming Worksheet 4



Popular furniture company Eaki is designing a webpage for helping to work out how much materials are needed to paint a room. They know that 2.5 litres of undercoat is needed per 5m², and 4 litres of paint is needed per 5m².

The cost of their special paint is £20.99 for a 2.5 litre tin and a tin of 5 litre undercoat is £10.

They have already written a function called tins_amount that takes the parameters of metres_to_paint and litres_per_surface_area, and returns how many tins would be needed to paint the area. For example, $10m^2$ and $15m^2$ areas to paint would call the function like so:

tins_amount (10, 4) \rightarrow would return 3

tins_amount (15, 4) \rightarrow would return 4

1 Write a function called paint_price which takes as a parameter how many tins are needed and returns a total cost.

[4]

They have also written the function called undercoat_price which works out the cost needed for undercoat just like the function you've written above, paint_price.

Write the code to produce a receipt. The program should ask the user how much surface area needs to be painted. The receipt should list, tins of paint and total cost, tins of undercoat and total cost. And finally print a grand total. Use all the functions from above that you may need.