

1 The table shows heat loss through a poorly insulated house.

Part of house	Energy loss, joules per second
Roof	150
Floor	71
Gaps (e.g. below a door)	70
Windows	109
Walls	200
Total	600

1 (a) (i) The house costs £800 per year to heat.

How much money is wasted per year because of the amount of heat that is lost through the roof? **[2 marks]**

.....
.....

Cost = £

1 (a) (ii) The homeowner installs loft insulation. This saves her 25% on her **annual** energy bill. The payback time is 2 years.

How much did it cost to install the loft insulation? **[2 marks]**

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Cost = £

1 (a) (iii) Properly insulating a house can help reduce the amount of carbon dioxide in the air.

Explain why. **[2 marks]**

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(Total 6 marks)

End

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