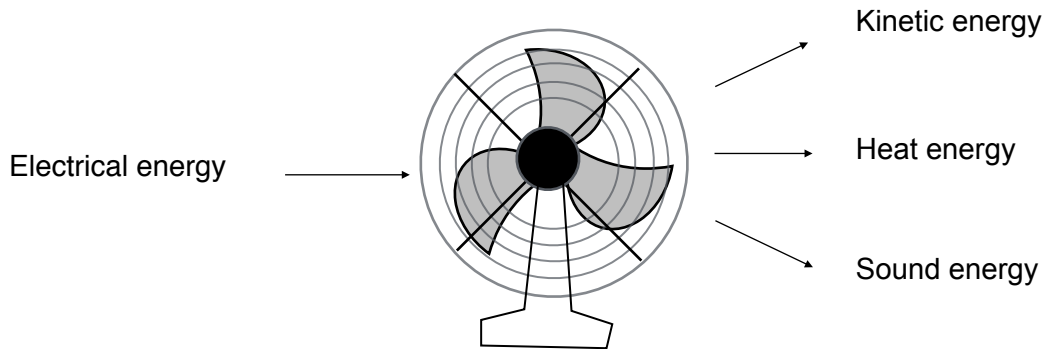


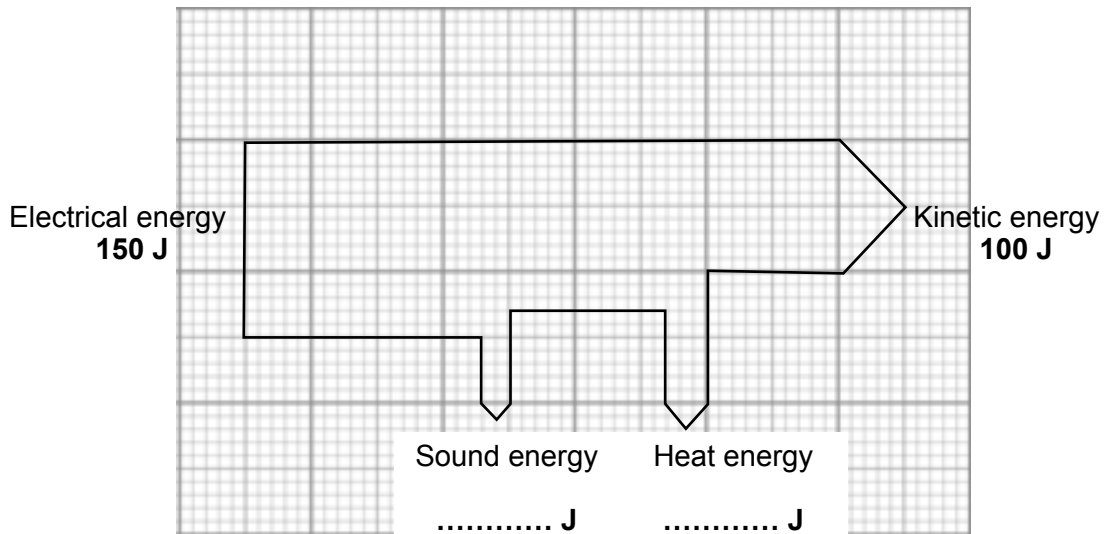
1 An electrical fan transfers energy in order to create a flow of air. Some of the types of energy involved in the transfer are shown below.



1 (a) (i) What is the relationship between the total energy input and total energy output from the fan? [1 mark]

.....

1 (a) (ii) Here is a Sankey diagram showing information about the energy transfers for the fan.



Complete the Sankey diagram to show the amounts of sound and heat energy transferred. [2 marks]

1 (a) (iii) Calculate the **percentage** efficiency of the fan. [2 marks]

.....

Efficiency %
(Total 5)

End