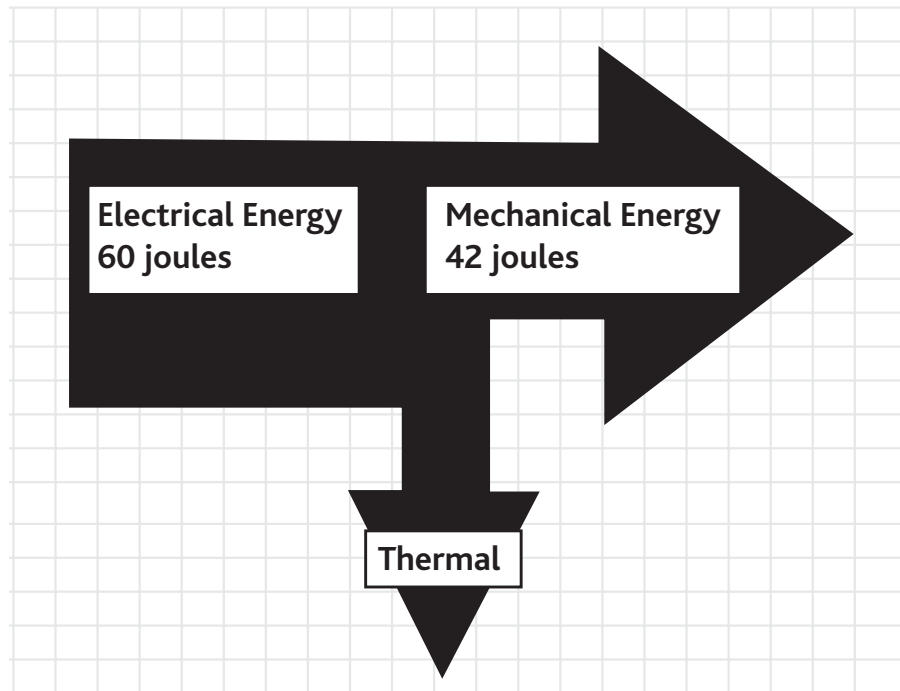


## C2.4 WORKSHEET H: READING A SANKEY DIAGRAM



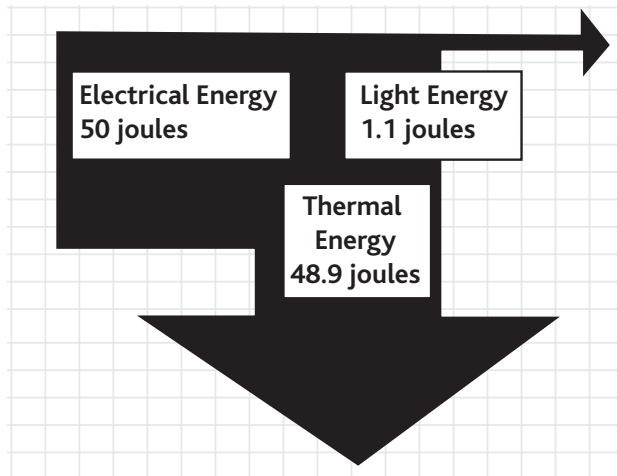
1. How much thermal energy does the motor produce?
  - a) 62 joules
  - b) 18 joules
  - c) 60 joules
  - d) 42 joules

Answer:

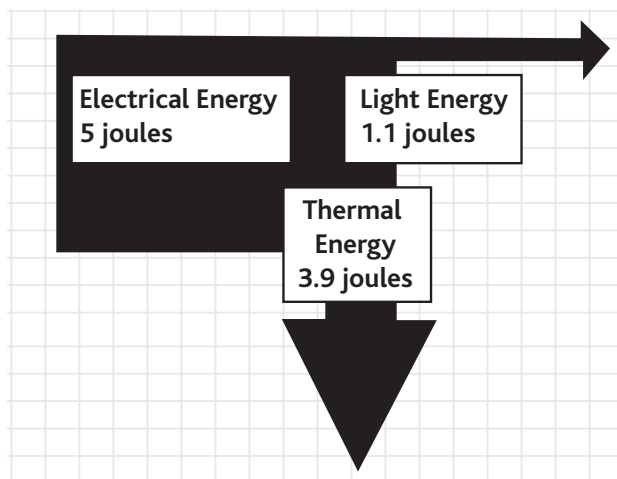


2. Which of the three lights, A, B or C is the most efficient? Give a reason for your answer.

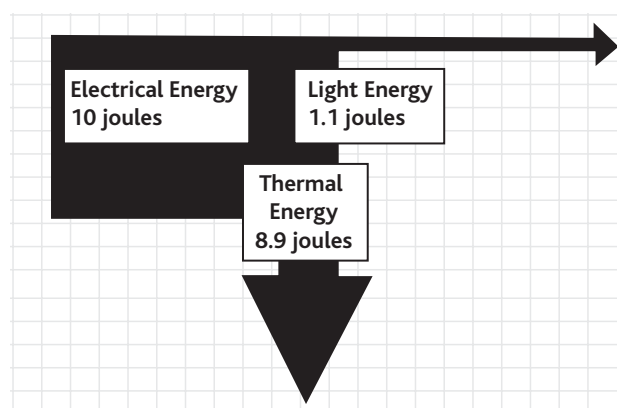
A. Filament Lamp



B. LED Lamp



C. CFL Lamp



Answer:

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3. How much heat energy is emitted by each of the light bulbs in question 2?

A:  B:  C:

4. Which of the light bulbs in question 2 is most efficient? Give a reason for your answer.

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5. What is a filament bulb?

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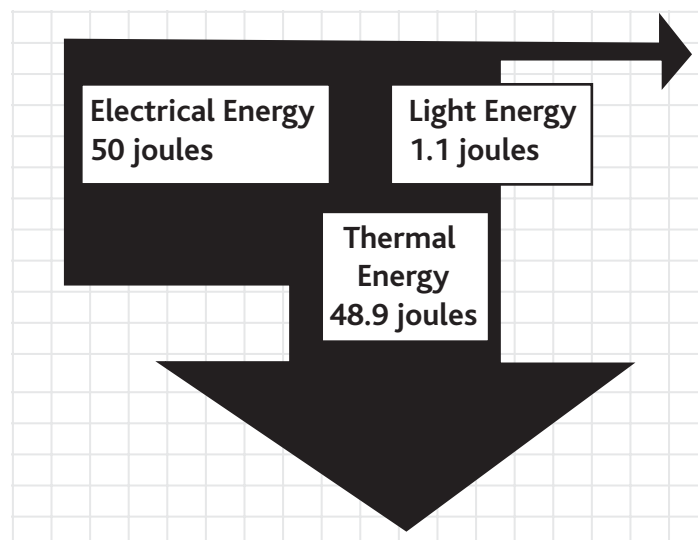
6. Explain what the letters CFL represent.

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7. Is this filament lamp efficient? Give a reason for your answer.

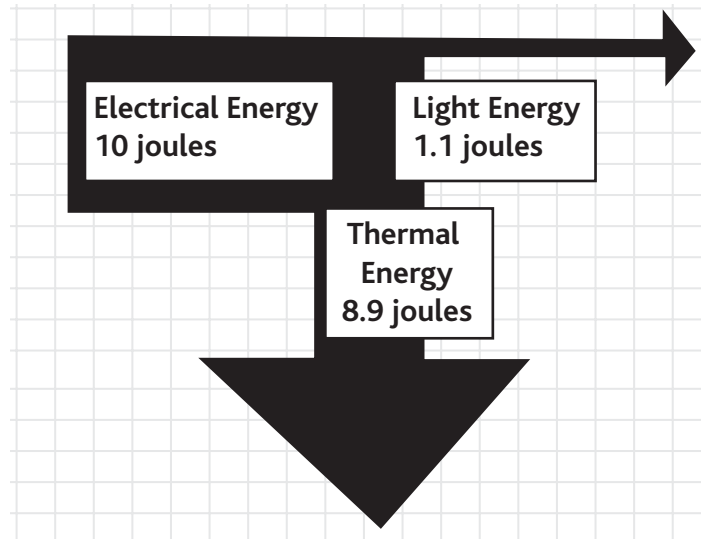


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8. What is the efficiency of the CFL lamp in the diagram below? Suggest another phrase instead of 'thermal' which could be substituted and still retain the same meaning.

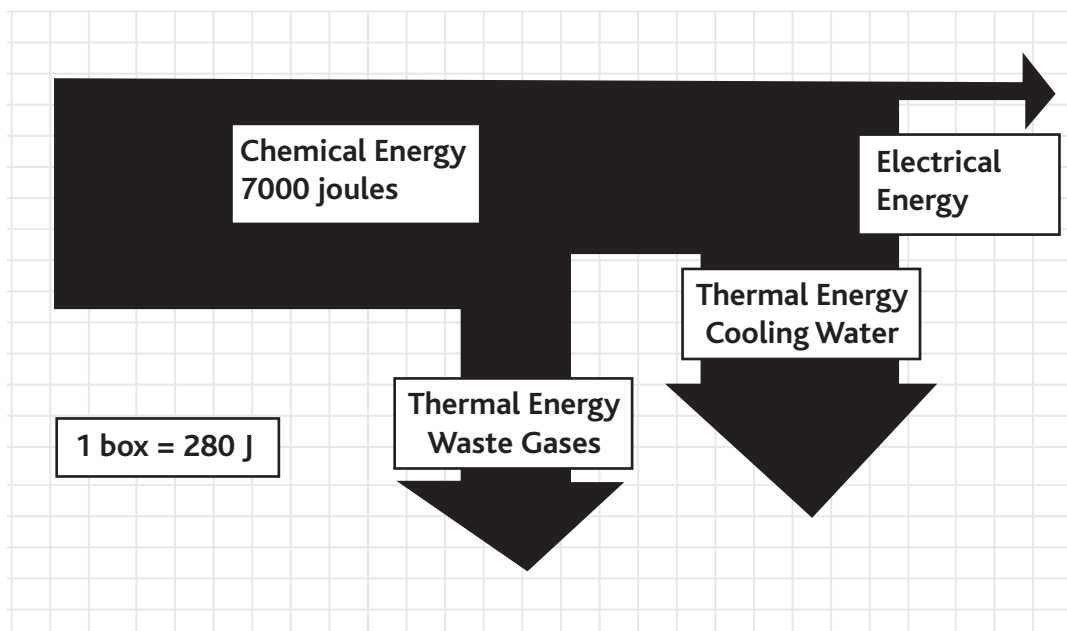



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9. How much useful energy is produced by this power station? [Hint: check the scale.]




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10. What is the efficiency of this power station?

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