Section A:

1. Write definitions for these key words:

   Recycling -

   _____

   _____

   Recasting/reforming -

   _____

   _____

2. Give **one** reason why aluminium should not be put in landfill waste.

   _____

   _____

3. There are environmental advantages to recycling metals

   State **two** of these advantages.

   1. _____

   _____

   2. _____

   _____

4. The melting point of copper is 1085ºC.

   State temperature where copper would be molten. _____

5. State **two** reasons why copper should be recycled.

   1. _____

   _____

   2. _____

   _____

Section B

1. Describe the process of recycling metals.

2. Evaluate the advantages and disadvantages of recycling metals.

   Include social, environmental, and economical factors.

Section C

A metal scrap yard contained previously used scraps of iron, copper, and steel.

An electromagnet was used to separate the metals so they could be sorted for recycling.

1. Explain why this mixture needs to be separated before recycling can take place.

2. State which metal(s) would be attracted to the electromagnet.

3. Explain the advantages of using an electromagnet rather than a permanent magnet when separating metals.

4. Compare the composition of steel and iron.

5. Explain why steel is harder than iron.

6. In the UK, 40% of the metal we use is recycled and the rest is obtained using mining.

   (a) Calculate the percentage of metal we use that has been obtained using mining.

   (b) Calculate the simplest ratio of recycled metal to metal obtained by mining.

   (c) Given the importance of recycling metals, suggest how people could be encouraged to increase the percentage of recycled metals.