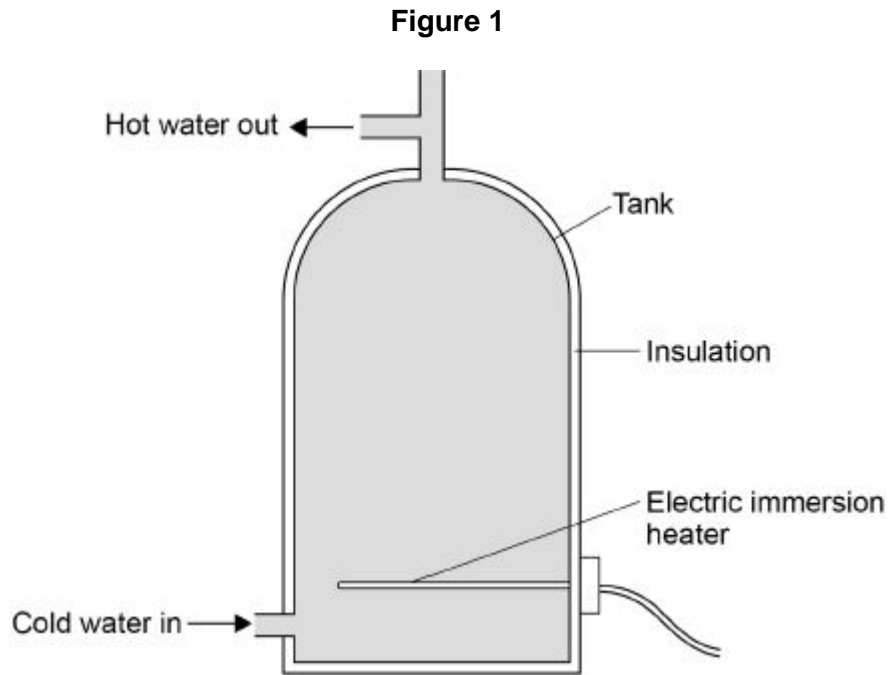


Q1.

Figure 1 shows a hot water tank made of copper.



- (a) Copper has a higher thermal conductivity than most metals.

How does the rate of energy transfer through copper compare with the rate of energy transfer through most metals?

Tick **one** box.

Higher

Lower

The same

(1)

- (b) The tank is insulated. When the water is hot, the immersion heater switches off.

Complete the sentences.

Compared to a tank with no insulation, the rate of energy transfer from the water in an insulated tank is _____ .

This means that the water in the insulated tank stays _____
for longer.

(2)

Mark schemes

Q1.

(a) higher

1

(b) low(er)

1

hot(ter)

allow warm(er)

1