

**8** Concrete on top of buildings can be used to heat water.

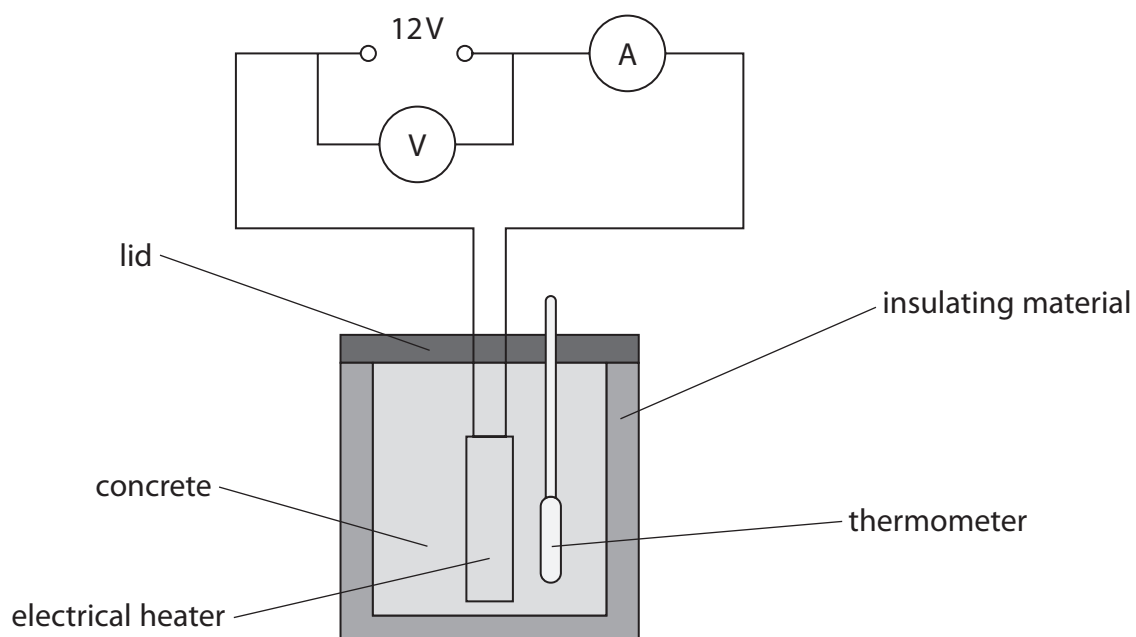
The photograph shows a concrete and water heating system being built into the roof of a house.



(Source: © ejhgndrn/Shutterstock)

- (a) A scientist wants to determine the specific heat capacity of concrete.

The diagram shows some of the equipment they could use.



Describe a suitable method to find the specific heat capacity of concrete.

(5)

- (b) Explain the advantage of the concrete having a high specific heat capacity when it is used to heat water in the heating system.

(2)

(Total for Question 8 = 7 marks)

**TOTAL FOR PAPER = 70 MARKS**



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**Pearson Edexcel International GCSE (9–1)****Friday 16 June 2023**

Morning (Time: 1 hour 15 minutes)

**Paper  
reference****4PH1/2P****Physics****UNIT: 4PH1****PAPER: 2P****Equation Booklet****Do not return this Booklet with the question paper.***Turn over* ►**P71957A**

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