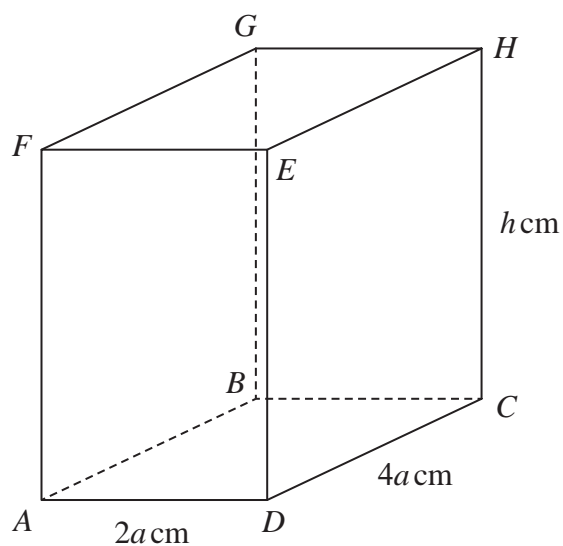


26

Diagram **NOT**
accurately drawn

The diagram shows a cuboid $ABCDEFGH$ in which

$$AD = 2a \text{ cm}$$

$$DC = 4a \text{ cm}$$

$$CH = h \text{ cm}$$

Given that $AC = (2\sqrt{a})BH$ and that $\angle HAC = 45^\circ$

find the value of a .

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Question 26 continued)

$a = \dots\dots\dots$

(Total for Question 26 is 6 marks)

