18 The diagram shows a cube *ABCDEFGH* with sides of length 6 cm.

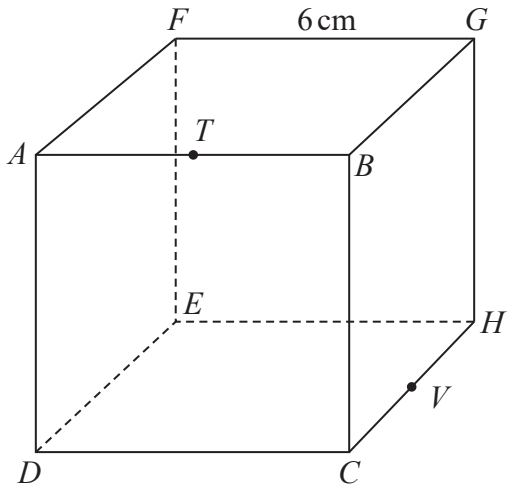


Diagram **NOT** accurately drawn

T is the midpoint of *AB* and *V* is the midpoint of *CH*

Work out the distance from *T* to *V* in a straight line through the cube.
Give your answer in the form $\sqrt{a}$ cm where *a* is an integer.

..... cm

(Total for Question 18 is 4 marks)

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