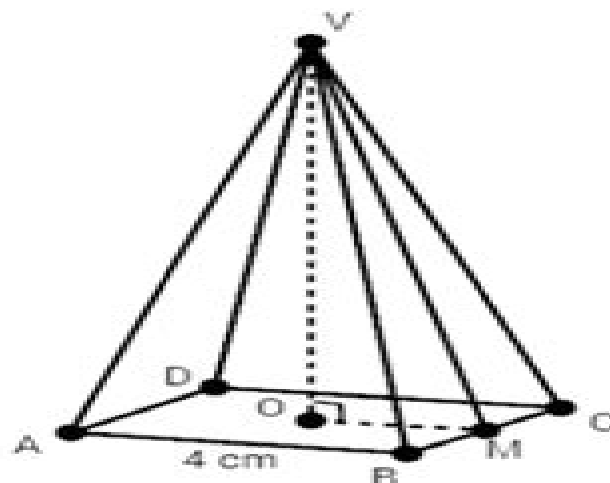


[Maximum mark: 18]



A plastic toy is in the shape of a right pyramid. The pyramid has a square base with the sides 4 cm long. The diagram below represents this pyramid, labelled $VABCD$. V is the vertex of the pyramid. O is the centre of the base $ABCD$. M is the midpoint of BC . The angle VBC is equal to 75° .



- (a) Calculate the length of VM . [3]
- (b) Calculate the height of the pyramid, VO . [2]
- (c) Find the volume of the pyramid, in cm^3 . Give your answer correct to one decimal place. [2]
- (d) Write down your answer to part (c) in the form $a \times 10^k$, where $1 \leq a < 10$ and $k \in \mathbb{Z}$. [1]

Another plastic toy is in the shape of a right cone. The height of the cone is equal to the height of the pyramid, and the diameter of the cone's base is equal to 4 cm.

- (e) Determine whether the amount of plastic used to manufacture the pyramid is also enough to manufacture this cone. [4]

After heating, the pyramid deforms in such a way that the angle VBC decreases by 20%. The side VC decreases during this deformation, however sides VB and BC stay the same.

- (f) Calculate
 - (i) The new distance from the pyramid vertex V to point M .
 - (ii) The new area of the pyramid's side VBC . [6]

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