

**Advanced Higher Maths**  
**SQA 2016 Paper**  
**Question 11**



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The height of a cube is increasing at the rate of  $5 \text{ cm s}^{-1}$ .

Find the rate of increase of the volume when the height of the cube is 3 cm.

4

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Answer:

$135 \text{ cm}^3 \text{ s}^{-1}$