

- (c) The box contains biscuits.
 Each biscuit is a cylinder of radius 2.3 centimetres and height 4 millimetres.

Calculate

- (i) the largest number of biscuits that can be placed in the box,

$$\text{Height of prism} \div \text{height of biscuit}$$

$$12 \text{ cm} \div 0.4 \text{ cm} = 30$$

Answer(c)(i) 30 [3]

- (ii) the volume of one biscuit in cubic centimetres,

$$\text{Volume} = \pi (2.3)^2 (0.4) = 6.6476$$

$$= 6.65 \text{ cm}^3$$

Answer(c)(ii) 6.65 cm³ [2]

- (iii) the percentage of the volume of the box not filled with biscuits,

$$\text{Total volume of biscuits} = 6.6476 \times 30 = 199.43 \text{ cm}^3$$

$$\text{Vol not filled with biscuits} = 333 - 199.43 = 133.57 \text{ cm}^3$$

$$\% \text{ vol not filled} = \frac{133.57}{333} \times 100 \%$$

$$= 40.1 \%$$

Answer(c)(iii) 40.1 % [3]

Question 11 is printed on the next page.

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