

Intermediate Maths June 2017 P1 Q15

In the following formulae, each measurement of length is represented by a letter.

Consider the dimensions implied by the formulae.

Write down, for each case, whether the formula could be for a length, an area, a volume or none of these.

The first one has been done for you.

[3]

<u>Formula</u>	<u>Formula could be for</u>
$d^3 - 3 \cdot 14r^2h$ volume
$d^2 + hw$
$d + w + h$
$2\pi r - \pi r^2$
$(d + h)w$
$d^3 + dvh$

Intermediate Numeracy Nov 2018 P1 Q9bii

- (iii) Which one of the following formulae could be used to work out the volume of Jade's new suitcase?

a , b and c are measurements of the 3 dimensions of the suitcase.

Circle your answer.

[1]

$a + b^2 + c$ $2a^2c - 4\pi b^2$ $abc + \pi a^2c$ $a^3 - b^2 + c$ $a + b^3 + c$

In the following formulae, each measurement of length is represented by a letter.

Consider the dimensions implied by the formulae.

For each case, write down whether the formula could be for a **length**, an **area**, a **volume** or **none of these**.

The first one has been done for you.

[3]

<u>Formula</u>	<u>Formula could be for</u>
$3 \cdot 14r^2 - dw$	area
$w^3 + r^2d$
$3w + 2d + h$
$dhr + 5d^3$
$4d + \pi r^2$
$\frac{dwh}{r}$
