

SUVA SANGAM COLLEGE

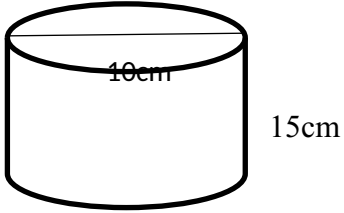
YEAR 11

APPLIED MATHEMATICS

WORKSHEET 3

Strand 1	Basic Mathematics
Sub-Strand	Measurement
Content Learning Outcome	To calculate surface area and volume
Reference from Text	Pg 20 - 25

Questions

	CONCEPT IN BRIEF: Closed cylinder: Surface Area = $2\pi r^2 + 2\pi rh$ Volume = $\pi r^2 h$
1.	A closed cylinder is given with a diameter of 10cm and height of 15cm.  <p>(a) Calculate the total surface area of the cylinder. (b) Calculate the volume of the cylinder.</p>
	CONCEPT IN BRIEF: Selling Price = Original Price – Discount
2.	After 20% discount, an item was sold for \$184. What was the original price of the item?
	CONCEPT IN BRIEF: Surface Area = $2(l \times w) + 2(l \times h) + 2(w \times h)$
3.	A closed box needs to be covered in brown paper for mailing. If the box measures 3 m by 3 m by 2 m, what is the surface area of the box that will need to be covered?