

AREA and VOLUME 2

MNU 4-11a

I can apply my knowledge and understanding of measure to everyday problems and tasks and appreciate the practical importance of accuracy when making calculations.

MTH 4-11b

Through investigating real-life problems involving the surface area of simple 3D shapes, I can explore ways to make the most efficient use of materials and carry out the necessary calculations to solve related problems.

MTH 4-11c

I have explored with others the practicalities of the use of 3D objects in everyday life and can solve problems involving the volume of a prism, using a formula to make related calculations when required.

Pupils should be able to:

- Calculate the areas of a square, rectangle, triangle
- Calculate the circumference and area of a circle.
- Calculate the area of a kite, rhombus, parallelogram, composite shape.
- Calculate the volume of a cuboid, cylinder, triangular prism.
- Calculate the surface area of a cuboid, cylinder, triangular prism.

PUPILS SHOULD COMPLETE THE FOLLOWING EXERCISE AND ASSESS THEIR PROGRESS BY TICKING ONE OF THE OPTIONS FOR EACH TOPIC IN THE TABLE BELOW

	DEVELOPING	CONSOLIDATING	SECURE
Areas of circle, kite, rhombus, parallelogram Question 1			
Circumference and area of circle Question 2			
Volumes of cuboid, cylinder, triangular prism Question 3			
Surface areas of cuboid, cylinder, triangular prism Question 4			

mymaths lessons: [library/shape/area & perimeter/area of circle](#)

mymaths lessons: [library/shape/area & perimeter/area of parallelogram](#)

mymaths lessons: [library/shape/volume & surface area/volume of cuboids](#)

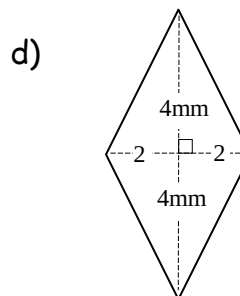
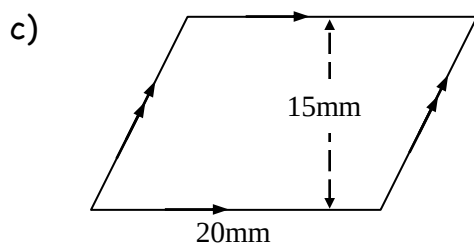
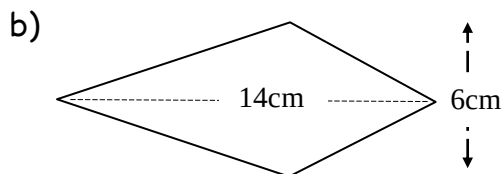
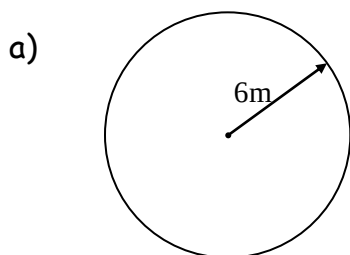
mymaths lessons: [library/shape/volume & surface area/volume of prisms](#)

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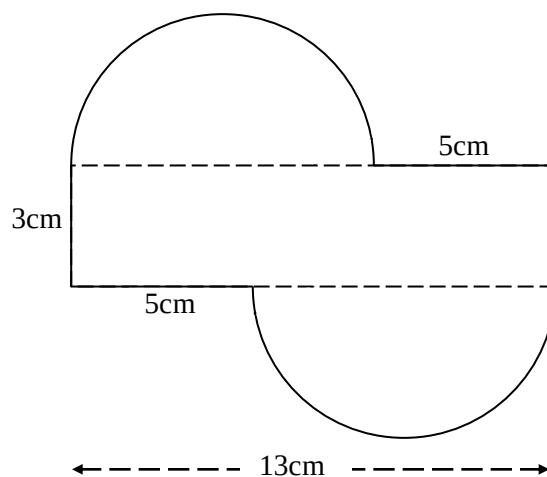
SELF EVALUATION EXERCISE

DATE DUE _____

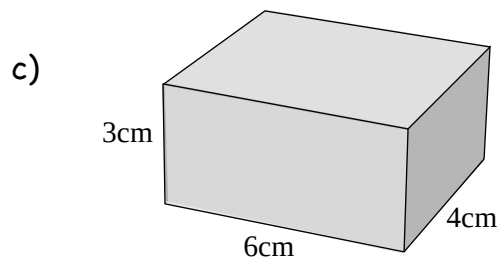
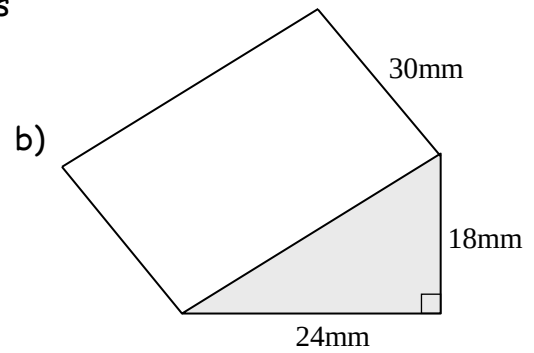
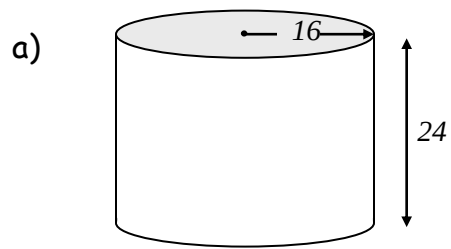
1. Calculate the areas of the following shapes:



2. Calculate the (i) perimeter (ii) area of this shape



3. Calculate the volumes of the following solids



4. Calculate the surface areas of the shapes in question 3.