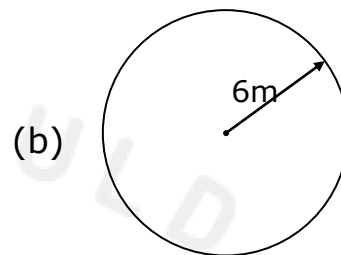# Perimeter, Area & Volume

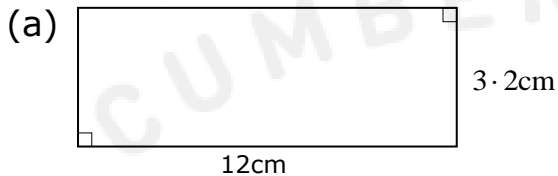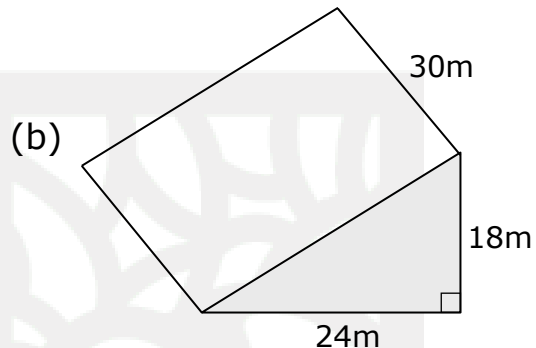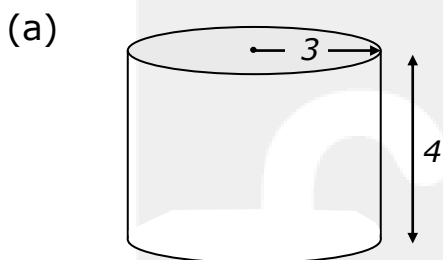## N5 Applications HW

Calculators permitted but all working needs to be shown.

Essential knowledge:

1. Find the perimeter <u>and</u> area of each shape:

(a)

3·2cm

12cm

(b)

6m

2. Find the volume of each solid:

(a)

3

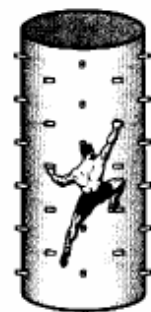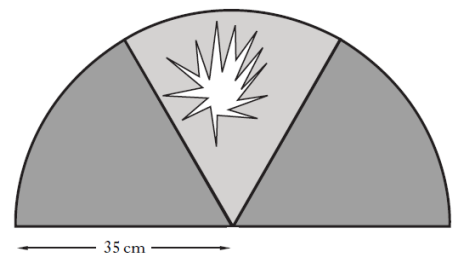4

(b)

30m

18m

24m

Unit level:

3. Find the Area and perimeter of the shape on the right.

15cm

18cm
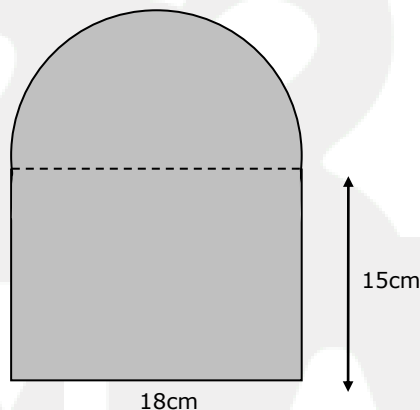
4. An adventure park is installing a climbing wall. The wall has a volume of 56.55m³ and a height of 8m. What will the radius of the cylinder be?

5. A semi-circular window is made from three identical pieces of glass. Calculate the area of the damaged piece of glass.

35 cm

Assessment level:

6. Mairi is planning to paint the walls of her room.
The room is in the shape of a cuboid with the dimensions shown.
How much paint does Mairi need to paint the walls of her room?

Emulsion
Coverage
1 litre
covers 16m²

2m

window   1·5m

1m

6m   door 2m   2·5m

4m
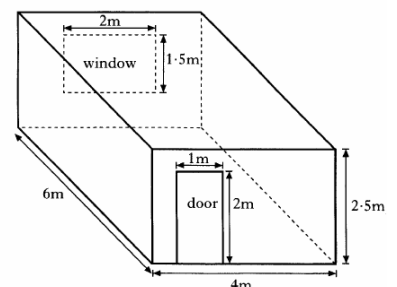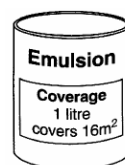
Circle - $C = \pi d$ $A = \pi r^2$ Cylinder - $V = \pi r^2 h$ Prism – V = Ah