



Learner assessment · Surface area and volume

GCSE Mathematics 1MA1 · L036 · 60 minutes

Total: 20 marks. Suggested time: 18 minutes. Questions are labelled NC or C.

1. A cuboid measures 7 cm by 4 cm by 3 cm. Find its volume. [NC] [2 marks]

2. Find the total surface area of the same cuboid. [NC] [3 marks]

3. A closed cylinder has radius 4 cm and height 10 cm. Find its total surface area in terms of π . [C] [3 marks]

4. Find the volume of the cylinder in Question 3 in terms of π . [C] [2 marks]

5. An open-top box measures 9 cm by 6 cm by 4 cm. Find its exposed surface area. [NC] [4 marks]

6. A cuboid has volume 504 cm^3 and base dimensions 12 cm by 7 cm. Find its height and then its total surface area. **[NC] [4 marks]**

7. Explain one way to check that you have not confused surface area with volume in a final answer. **[NC] [2 marks]**
