

National 5 Final Exam Revision

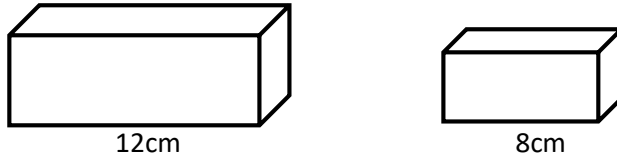
Geometric Skills

Similarity: Area and Volume

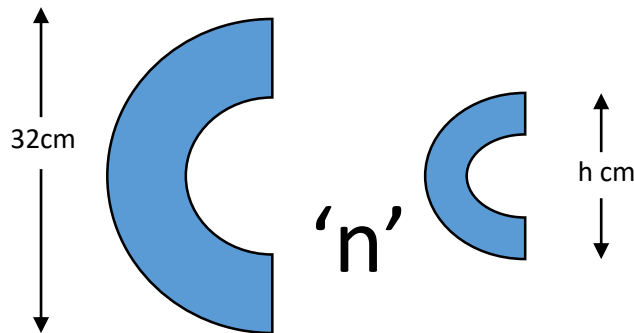
Average Allocation

3 Marks

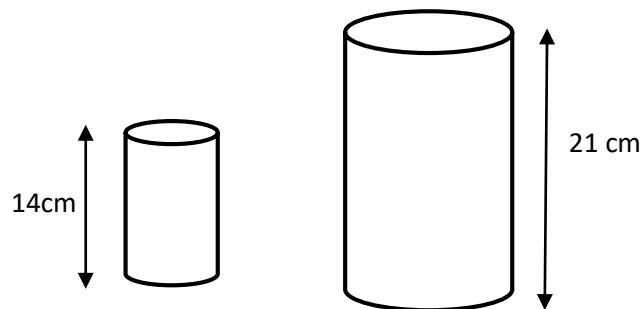
1. Two cuboids shown below are mathematically similar.
The volume of the large cube is 540cm^3 . Calculate the volume of the small cuboid.



2. Cheap 'n' Cheerful have a new logo using 2 letters which are mathematically similar. The area used for the large "C" is 124cm^2 and the area of the small "C" is 31cm^2 . Calculate the height of the small "C".



3. Both containers below are mathematically similar. When half full, the small container can hold 400ml.
Work out the volume of the large container when it is full.



4. The volumes of 2 mathematically similar vases are 5.4 litres and 1.6 litres. If the height of the large vase is 30cm. work out the height of the small vase.
5. Two photographs are mathematically similar. Their heights are 24cm and 16cm.
The area of the small photograph is 88cm^2 . Work out the area of the large photograph.
6. Two packets of cereal are mathematically similar. The miniature packet is 10cm in length and holds 120g of cereal. The regular sized packet is 26cm in length.
Calculate the amount of cereal the regular sized packet can hold.

