

Basic Volume

Week 6

Lesson Time : 15-20 Minutes
Course : Foundation or Higher
Grade : 4/5

Back to Basics**Core****Let's Do It!**

GCSE Revision Video 29

- **Prior Checklist:** A pack of A5/A6 revision cards.

A pen.

- **Our Video Structure:**

Back to Basics: Quick re-cap.

Core: *Create* your own revision cards with exam style questions.

Let's Do It! : *Apply* your revision cards to another set of exam style questions.

Instructions: **Print out** this worksheet and watch the revision video simultaneously.

Pause and Play the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.

Create your OWN revision cards when prompted on the worksheet(Back to Basic and Core sections).

Apply your OWN revision cards (Let's Do It! section).

Self Assess yourself (Out of 10) on your revision planner after you have completed the revision video .

WATCH this revision video and **MANY** others on our **FULL** courses at www.mathsmemory.co.uk

Let's get started and create our Master revision card with this suggested template.

MATHS
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Maths Memory

Learn:

- Basic shapes (Prisms)
- Functional problems

Step 3

Step 2

Step 1

10

7

4

Example(s):

Topic: Basic Volume

Date/week:

GRADE
4/5

Back to Basics- Starter questions to warm you up

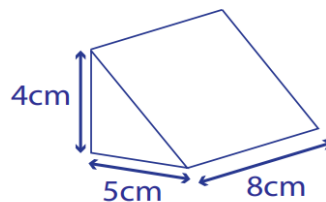


Back to Basics

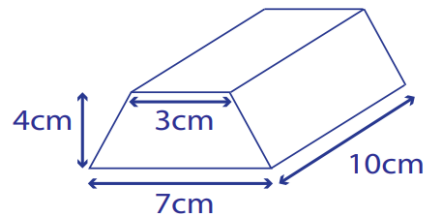
Topic: Basic Volume

Question 1

a) Calculate the volume of this triangular prism.

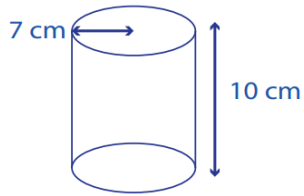


b) Calculate the volume of this trapezium prism.

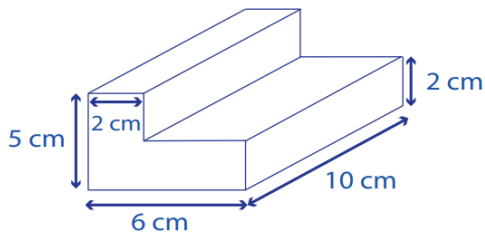


Question 2

a) Calculate the volume of this cylinder

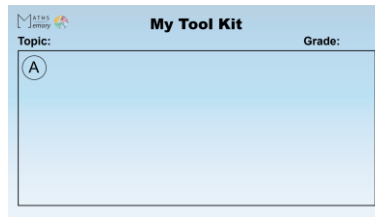


b) Calculate the volume of this shape.

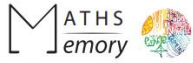


Calculator

Let's get our revision card and create Section A. Look at video for guidance.



Core- Create your revision cards with these exam style questions

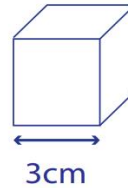


Core 1

Topic: Basic Volume

Question 1

The diagram shows a cube of side length 3 cm.



Waheed says 'The volume of any solid made with 5 of these cubes is 270cm^3

a) Is Waheed correct? Show your working?

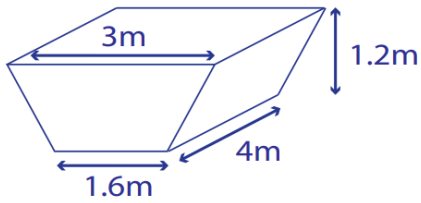
b) Zah has a cuboid. It's width is 3 cm , height 4 cm. It's volume is 66cm^3 . Find it's length.

Grade

4 (4 Marks)

Question 2

A water tank is in the shape of a trapezium prism.



Water flows into the tank at a constant rate.

The full capacity of the tank is 90%. Assume $1 \text{ m}^3 = 1000 \text{ litres}$.

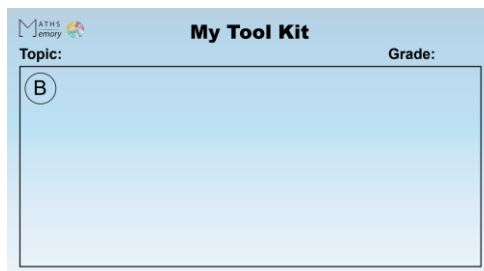
After one minute there are 248 litres of water in the tank.

Work out how many minutes it would take to fill the tank to full capacity.

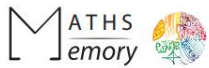
Grade

5 (5 Marks)
Calculator

Let's get our revision card and create Section A. Look at video for guidance.



Let's Do It! - Apply your revision cards to another set of exam style questions



Let's Do It!

Topic: Basic Volume

Question 1

The total surface area of a cube is 96cm^2 .
Find the volume of the cube.

Grade
4 (3 Marks)
Calculator

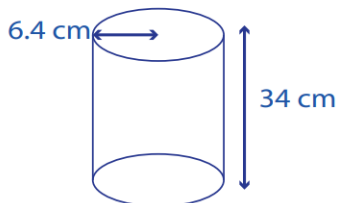


Let's Do It!

Topic: Basic Volume

Question 2

A juice blender is in shape of a cylinder and contains orange juice.



Orange juice flows into the blender at a constant rate (through a beaker).
It flows into the blender at a rate of 1 litre per 10 seconds. The full capacity of the blender is 90%
Assume 1 litre = 1000 cm^3 . Aaron says ' It will take under 40 seconds for the orange juice to fill to full capacity. Is Aaron correct? Justify your answer.

Grade
5 (4 Marks)
Calculator

Congratulations. You have completed this topic.

Now go back to your revision planner and rate yourself out of 10.



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