

Year 9H Homework – Half Term 1

Homework 1 – Due: _____

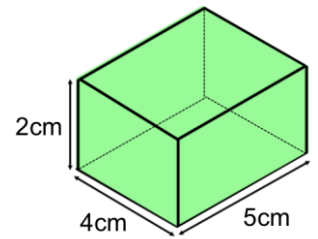
Make sure you log on to HegartyMaths for help if you need it.
The clip number is shown with the topic.

Sharing in a Ratio (332)

The ratio of boys to girls in a class is 3:5.
There are 32 students in the class. How many students are boys?

Volume/Surface Area of Cuboids (568)

Work out the volume of the cuboid.



Special Sequences (261)

What is the 5th term in the sequence of square numbers?

Percentage Increase/Decrease (90)

Increase £490 by 11%
Give your answer rounded to 2 DP.

Homework 2 – Due: _____

Log onto HegartyMaths to watch the video and complete the quiz online. **Topic:** _____

My score was: _____

Homework 3 – Due: _____

Make sure you log on to HegartyMaths for help if you need it.
The clip number is shown with the topic.

Sharing in a Ratio (332)

The ratio of boys to girls in a class is 5:4.
There are 36 students in the class. How
many more boys than girls are there?

Index Notation (105)

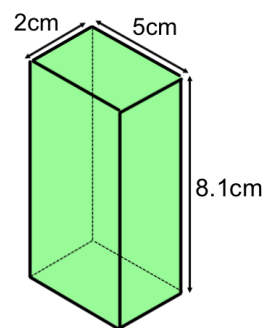
Simplify $9^4 \times 5^2 \times 9^3 \times 5^3 \times 9^2$
leaving your answer in index form.

Special Sequences (261)

What is the 2nd term in the sequence
of cube numbers?

Volume/Surface Area of Cuboids (568)

Work out the volume of the cuboid.



Homework 4 – Due: _____

Log onto HegartyMaths to watch the video and complete
the quiz online. **Topic:** _____

My score was: _____

Homework 5 – Due: _____

Make sure you log on to HegartyMaths for help if you need it.
The clip number is shown with the topic.

Trial and Improvement (321)

Using trial and improvement, find the solution between 4 and 5 for the following equation.
Give your answer rounded to 1 DP.

$$x^3 = 71$$

Percentage Increase/Decrease (90)

Increase £2123 by 8%
Give your answer rounded to 2 DP.

Special Sequences (261/263)

What is the 3rd term in the sequence of triangle numbers?

Volume/Surface Area of Cuboids (568)

Calculate the volume of a cube with side length of 5mm.

Homework 6 – Due: _____

Log onto HegartyMaths to watch the video and complete the quiz online. **Topic:** _____

My score was: _____

Extension

Have you finished? Are you finding it too easy?

Go to <https://parallel.org.uk/> and look at the puzzles for your year group on the left. Show your answers on this page.