Year 9H Homework – Half Term 1

Homework 1 – Due: _____

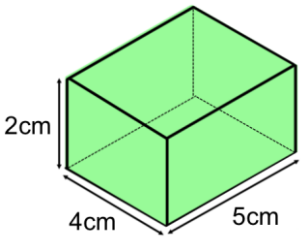
Make sure you log on to HegartyMaths for help if you need it.

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.

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)

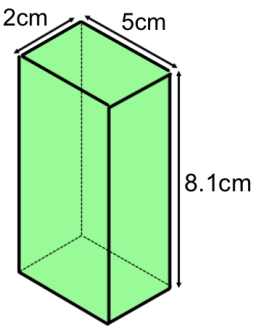
Simplify $9^4 \times 5^2 \times 9^3 \times 5^3 \times 9^2$ leaving your answer in index form.

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.

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.