Maths - Week Starting 20/04 – 8.3A and 8.3B

There are normally 3 Maths lessons each week so I have split this week's work into 3 lessons. However you do not have to complete each lesson in one session. You may find it preferable to do 30-40 minutes in one sitting. The important thing is to complete this work by the end of the week and not get behind.

Lesson 1

Log on to Mathswatch. If anyone is unable to do so please let me know as soon as possible.

In the 'Find a clip' menu make sure it is set to KS3.

Find Clip R1a – Introduction to Ratio.

Watch the video and pause it to answer questions.

On the menu bar above the screen click on orange 'Interactive Questions' box.

You will see there are 5 Standard Questions. Please do these questions and write answers in your exercise books. If you do not have it use your own book or lined paper and keep it in a folder. Also enter answers in the orange Submit Answer box and your work will be marked. If you get a question wrong please try again and get help if possible.

You will see that there are also 4 Harder Questions. Please try these though do not worry if you find them too difficult.

Lesson 2

Log on to Mathswatch and find clip R1b – Introduction to ratio – Shading.

Watch the video, pausing to answer questions. Also do all of the Interactive Questions on your computer.

Find clip R5a – Ratios – Simplifying.

Watch the video, pausing to answer questions.

Then answer these questions in your books.

I will send the answers to you later in the week and you then need to mark your work.

Here is an example:

Simplify 36 : 63.

36 and 63 can both be divided by 9. This gives:

4 : 7

Simplify these ratios:

1. 6:3
2. 4:8
3. 16:4
4. 5:25
5. 20:100
6. 8:10
7. 14:21
8. 20:25
9. 14:8
10. 24:8
11. 15:20
12. 22:55
13. 35:63
14. 2:4:8
15. 5:15:25
16. 100:70:20
17. 12:24:48
18. 60:6:18
19. £2:50p
20. 2m:40cm

For questions 19 and 20 you need to change one of the numbers so both numbers have the same units (both £ and both cm).

Lesson 3

Log on to Mathswatch and find clip R5b – Ratio – Sharing.

If you share something in the ratio 1:1 it means that there are equal amounts. All other ratios will not have equal amounts. This video shows how to work out amounts. This type of problem is the most common one on ratios.

Watch the video and pause to answer all the questions. Show your working in your books.

Click on 'Worksheet' box on the menu bar (next to Interactive Questions).

Do the first set of questions (Page 63B) in your books.

I will send the answers to you later in the week and you then need to mark your work.

If you are confident that you have grasped this topic well you can try the second part of the Worksheet (Page 63C).

Good luck with your Maths and do your best to complete this work by the end of the week.