Highfields Academy

Together we inspire, always aiming higher

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Friday 1st May 2020

Good morning everyone,

I hope you've all had a good week. It's Friday again, and has now been 6 weeks since we saw most of you. We are missing you all and really hope that things start to return to normal as soon as possible.

It has been great to keep in touch with many of you via email, and I know that many of you are also in contact with your teachers which is great also.

I haven't heard from Peter the Pirate for a few days, he must be busy polishing all that treasure you helped him to find! However, his cousin Roger has been in touch with me as he has heard that I have a team of people who are fantastic at solving problems and has asked for my help. He has two problems that need solving, one of them is ideal for Key Stage 1 and the other is ideal for Key Stage 2. Don't let me down guys, I've promised that we will be able to help him.

Mr Dyson's Friday Challenge – Key Stage 1

Roger needs to find a password that will allow him to board a pirate ship. To find the password you need to solve some maths questions. Once you have answered the question you need to find which letter that number relates to. If the answer is 1 then the letter is A, if the answer is 2 then it is B, 3 for C, 4 for D and so on. It might help for you to fill the letters in the table below first.

Good luck!

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

1. 10 – 8
2. Half of 18
3. 6 lots of 3
4. Double 10
5. 20 – 12
6. Half of 12
7. Half of 2
8. 5 multipied by 5 (5 lots of 5)

Mr Dyson's Friday Challenge – Key Stage 2

Roger needs to find a password that will allow him to board a pirate ship. To find the password you need to solve some maths questions. Once you have answered the question you need to find which letter that number relates to. If the answer is 1 then the letter is A, if the answer is 2 then it is B, 3 for C, 4 for D and so on. It might help for you to fill the letters in the table below first.

As an extra challenge from me once you have found the password see if you can find out what it means.

Good luck!

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

1. 4 squared (or 4x4 for those in Y3 and 4)
2. How many sides does an Octogon have
3. A quarter of 60
4. 100 – 80
5. Treble 5
6. Half of 38
7. A quarter is also known as ___%
8. The smallest number (lowest common multiple) in the 2 and 7 times tables
9. 240 divided by 12
10. The square root of 64 (which number multiplied by itself is 64)
11. How many sides in a pentagon
12. The largest prime number less than 20
13. 3 squared
14. 100 – 81